

INNIS ROAD APARTMENTS

2150 INNIS ROAD

owner:

HNHF REALTY COLLABORATION

architect:

the columbus designco

contractor:

MODEL GROUP

Project Summary

THE INNIS ROAD APARTMENTS IS A MULTIPLE DWELLING DEVELOPMENT THAT CONSISTS OF A TOTAL OF 138 DWELLING UNITS IN 3 SEPARATE BUILDINGS.

THE ROMEO BUILDING IS A FOUR STORY MULTI-FAMILY HOUSING PROJECT CONTAINING 78 DWELLING UNITS ARRANGED IN A TYPICAL DOUBLE LOADED CORRIDOR CONFIGURATION. THERE ARE A3 AMENITY SPACES ON THE FIRST FLOOR WITH OFFSTREET PARKING PROVIDED IN THE ADJACENT LOT. THE BUILDING IS A NONSEPARATED MIXED USE BUILDING OF TYPE VA CONSTRUCTION WITH WOOD FRAMED WALLS AND PRE-ENGINEERED WOOD FLOOR AND ROOF TRUSSES.

THE SIERRA AND TANGO BUILDINGS - THE BREEZEWAY BUILDING PORTION OF THE PROJECT CONSISTS OF TWO, THREE STORY, WALK-UP MULTI-FAMILY HOUSING BUILDINGS. THE TANGO BUILDING CONTAINS 36 DWELLING UNITS WHILE THE SIERRA BUILDING CONTAINS 24 DWELLING UNITS. PARKING IS PROVIDED IN THE ADJACENT LOT. THE BUILDINGS ARE OF TYPE VB CONSTRUCTION WITH WOOD FRAMED WALLS AND PRE-ENGINEERED WOOD FLOOR AND ROOF TRUSSES.

AS PART OF THE LOW-INCOME TAX CREDIT REQUIREMENTS, THE PROJECT IS DESIGNED TO ACHIEVE A LEED SILVER CERTIFICATION.

Green Building Requirements

THE PROJECT IS BEING DEVELOPED UNDER LEED FOR HOMES AND MUST MEET ALL PREREQUISITE REQUIREMENTS ALONG WITH THE SELECTED ADDITIONAL FEATURES - SEE THE PROJECT MANUAL OR CONTACT THE ARCHITECT FOR THE MOST CURRENT REQUIREMENTS.

Ohio Housing Finance Agency (OHFA)

THIS PROJECT IS BEING DEVELOPED IN ACCORDANCE WITH THE REQUIREMENTS OF THE OHIO HOUSING FINANCE AGENCY AND THE LOW INCOME HOUSING TAX CREDIT PROGRAM. THE LIHTC PROGRAM REQUIRES STRICT ADHERENCE TO ACCESSIBILITY AND OTHER ENVIRONMENTAL GUIDELINES, AND REQUIRE THAT THE DEVELOPMENT EXCEED THE CODE REQUIRED MINIMUMS CONSIDERED STANDARD FOR MULTI-FAMILY BUILDING AND CONSTRUCTION. THESE REQUIREMENTS, TO THE BEST EFFORT OF THE ARCHITECT HAVE BEEN INCLUDED IN THE DRAWINGS AND SPECIFICATIONS. THE LIHTC PROGRAM ALSO REQUIRES THAT CERTAIN CONSTRUCTION PROCESSES AND PROTOCOLS BE FOLLOWED BY THE GENERAL CONTRACTOR AND SUB-CONTRACTORS. IT IS IMPERATIVE THAT THE GENERAL CONTRACTOR BE FAMILIAR WITH THE PROGRAM AND ITS REQUIREMENTS.

PROJECT SELECTED SAFE HARBOR (PSSH)

THIS PROJECT IS INTENDED TO MEET ALL ASPECTS OF PHYSICAL ACCESSIBILITY REQUIRED BY SECTION 504 BY USE OF THE FOLLOWING SAFE HARBOR: ANSI 117.1 (2017)



PROJECT LOCATION

SITE AREA		
	SF	AC
- PID - 010-087436	399676 SF	9.18
A. AREA A (APARTMENTS)	223484 SF	5.13
B. AREA B (FUTURE PHASE)	161456 SF	3.71
C. AREA C (ANTENNA)	14731 SF	0.34

PARKING COUNT	
TYPE	COUNT
ACCESSIBLE SPACE	18
STANDARD 9X18	191
	209

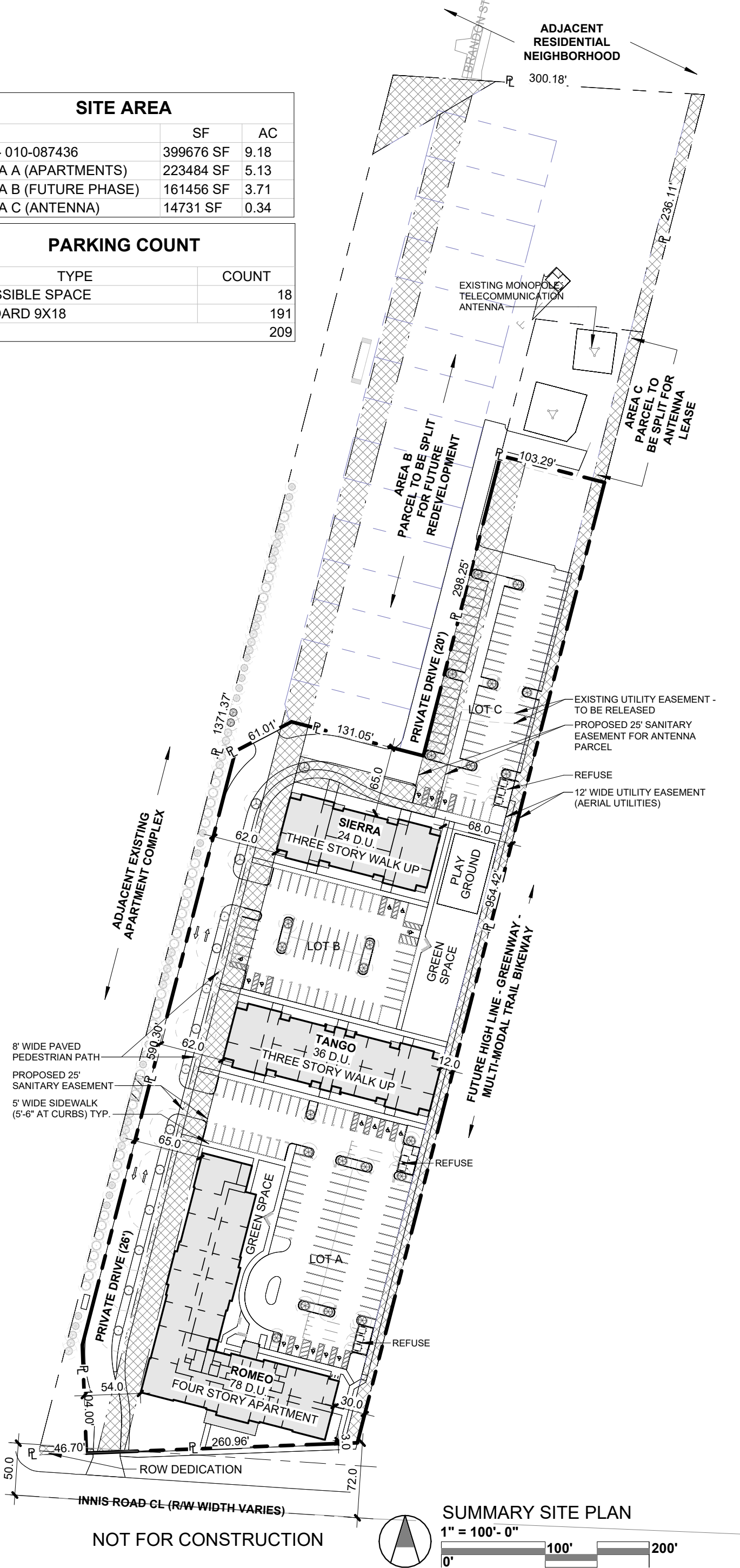
SENSORY IMPAIRED UNITS	
A TOTAL OF THREE DWELLING UNITS (EQUALING 2% OR GREATER) ONE IN EACH BUILDING ARE PROVIDED WITH ADDITIONAL FEATURES AS NOTED ON THE DWELLING UNIT PLANS	

LOW INCOME UNIT AREA	
PROGRAM AREA	GSF

TOTAL BUILDING AREA		
PROGRAM	UNIT CNT	GSF

DEVELOPMENT BOMA BUILDING SUMMARY		
PROGRAM	GSF	%

FLOOR AREA DETAILS		
PROGRAM AREA	GSF	%



SUMMARY SITE PLAN

1" = 100'-0"

MOBILITY UNIT DESIGNATION

SUMMARY FLOOR PLANS

1" = 40'-0"

0' 40' 80'

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the columbus designco

COLUMBUS DESIGN LLC 614-636-3075
WWW.THECOLUMBUSDESIGNCOMPANY.COM
WESTERVILLE OHIO 43081

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INNIS ROAD APARTMENTS

2150 INNIS RD.

HNHF REALTY COLLABORATION

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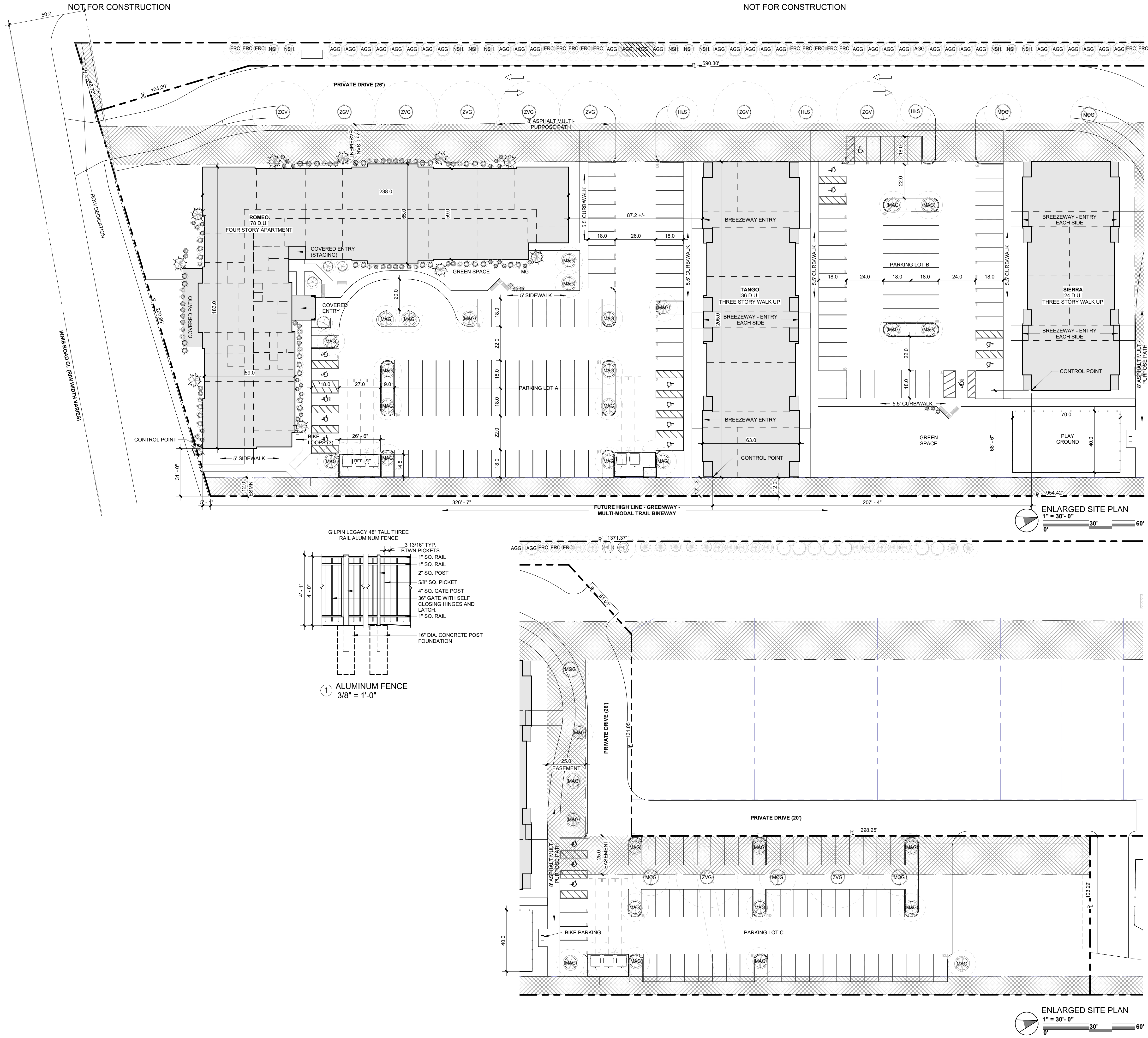
PROJECT #: 26104 v1

APPLICATION
DRAWINGS

PROJECT DATE: 03/11/26

G001
DEVELOPMENT
SUMMARY

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DEVELOPMENT PLANTING SCHEDULE			
	PLANT NAME	SIZE	CNT
MAG	ARMSTRONG GOLD	2 1/2" CAL.	9
CY	COLUMNAR ENGLISH YEW	4'-5'	6
DY	DENSIFORMIS YEW	2 GAL.	22
GGB	GREEN GEM BOXWOOD	18"	25
ZVG	JAPANESE ZELKOVA (VILLAGE GREEN)	2 1/2" CAL.	2
MG	MAIDEN GRASS	2 GAL.	34
MWD	MILKY WAY DOGWOOD	8'-10'	1
MOG	OCTOBER GLORY MAPLE	2 1/2" CAL.	3
SSS	SLENDER SILHOUETTE SWEETGUM	2 1/2" CAL.	3
JMG	MOONGLORY JUNIPER	7'-8'	11
CY	COLUMNAR ENGLISH YEW	4'-5'	7
GG	GREEN GEM BOXWOOD	18"	1
MG	MAIDEN GRASS	2 GAL.	6
DY	DENSIFORMIS YEW	2 GAL.	12
MAG	ARMSTRONG GOLD	2 1/2" CAL.	2
			144
REQ. SCREENING 5/75%			
ERC	EASTERN RED CEDAR	3'-4'	30
AGG	GREEN GIANT ARBORVITAE	4'-5'	42
NSH	NELLIE R. STEVENS HOLLY	3'-4'	18
			90
REQ. SHADE TREE (1 PER 10 DU)			
ZVG	JAPANESE ZELKOVA (GREEN VASE)	2 1/2" CAL.	4
ZVG	JAPANESE ZELKOVA (VILLAGE GREEN)	2 1/2" CAL.	4
MOG	OCTOBER GLORY MAPLE	2 1/2" CAL.	3
HLS	STREET KEEPER HONEYLOCUST	2 1/2" CAL.	3
			14
REQ. TREE ISLAND (1 PER 10 SPACES)			
MAG	ARMSTRONG GOLD	2 1/2" CAL.	10
MAG	ARMSTRONG GOLD	2 1/2" CAL.	4
MAG	ARMSTRONG GOLD	2 1/2" CAL.	8
			22

REQUIRED PLANTING SCHEDULE				
PARKING LOT AND DWELLING UNIT TREES				
MARK	PLANT NAME	SIZE	CNT	LOCATION
REQ. SCREENING 5/75%				
ERC	EASTERN RED CEDAR	3'-4'	30	
AGG	GREEN GIANT ARBORVITAE	4'-5'	42	
NSH	NELLIE R. STEVENS HOLLY	3'-4'	18	
			90	
REQ. SHADE TREE (1 PER 10 DU)				
ZVG	JAPANESE ZELKOVA (GREEN VASE)	2 1/2" CAL.	4	
ZVG	JAPANESE ZELKOVA (VILLAGE GREEN)	2 1/2" CAL.	4	
MOG	OCTOBER GLORY MAPLE	2 1/2" CAL.	3	
HLS	STREET KEEPER HONEYLOCUST	2 1/2" CAL.	3	
			14	
REQ. TREE ISLAND (1 PER 10 SPACES)				
MAG	ARMSTRONG GOLD	2 1/2" CAL.	10	LOT A
MAG	ARMSTRONG GOLD	2 1/2" CAL.	4	LOT B
MAG	ARMSTRONG GOLD	2 1/2" CAL.	8	LOT C
			22	

SITE AREA				SITE ACCESSORIES	
		SF	AC	TYPE	COUNT
EXISTING PL -	PID - 010-087436	399678 SF	9.18	BIKE LOOP	5
	A AREA A (APARTMENTS)	223484 SF	5.13	BENCH	6
	B AREA B (FUTURE PHASE)	161456 SF	3.71	TRASH CAN	3
	C AREA C (ANTENNA)	14731 SF	0.34		

EV PARKING REQUIREMENTS (3312.57)	
AFFORDABLE MULTI-FAMILY SITES - ELECTRIC VEHICLE PARKING FOR THIS SITE WITH GREATER THAN FOUR DWELLING UNITS WILL BE PROVIDED WITH SPACES AT THE FOLLOWING PERCENTAGES:	
EV CAPABLE:	15%
THESE PARKING SPACES PROVIDE DEDICATED CONDUIT FROM THE PLANNED LOCATION OF A BREAKER OR SUB PANEL EXPANSION TO THE EV CAPABLE PARKING SPACES.	
EVSE INSTALLATION SUBJECT TO AVAILABILITY OF SPECIFIC CITY FUNDING TO COVER THE PURCHASE AND INSTALLATION COSTS FOR COMPLIANCE.	
EV READY:	N/A
THESE PARKING SPACES PROVIDE DEDICATED ELECTRICAL PANEL CAPACITY, CONDUIT, AND WIRING INSTALLED WITH TERMINATION AT AN OUTLET TO THE EV READY PARKING SPACE.	
EVSE INSTALLED	2%
ELECTRIC VEHICLE SUPPLY EQUIPMENT: THESE PARKING SPACES PROVIDE DEDICATED PANEL CAPACITY, CONDUIT, AND EVSE INSTALLED, AS DEFINED BY RULES PROMULGATED UNDER THIS CHAPTER.	

PARKING SCHEDULE			EV PARKING SCHEDULE	
REQUIRED PARKING PER DWELLING UNITS AREA A	SPACE SITE VALUE	REQ. SPACES	SIZE/TYPE	CNT
1.5/DU	138 DU	207	9X18 EVSE	4
TOTAL REQ. SPACES		207	ACCESSIBLE SPACE EVSE	1
PROVIDED PARKING				5
SITE LOCATION	SIZE/TYPE	CNT	9X18 EV	27
9X18 STANDARD SURFACE		1	ACCESSIBLE SPACE EV	3
mf	9X18 EV	27		30
mf	9X18 EVSE	4		35
mf	9X18 STANDARD	158		
mf	ACCESSIBLE SPACE	12		
mf	ACCESSIBLE SPACE EV	3		
mf	ACCESSIBLE SPACE EVSE	1		
mf	VAN SPACE	2		
		208		

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2150 INNIS RD.
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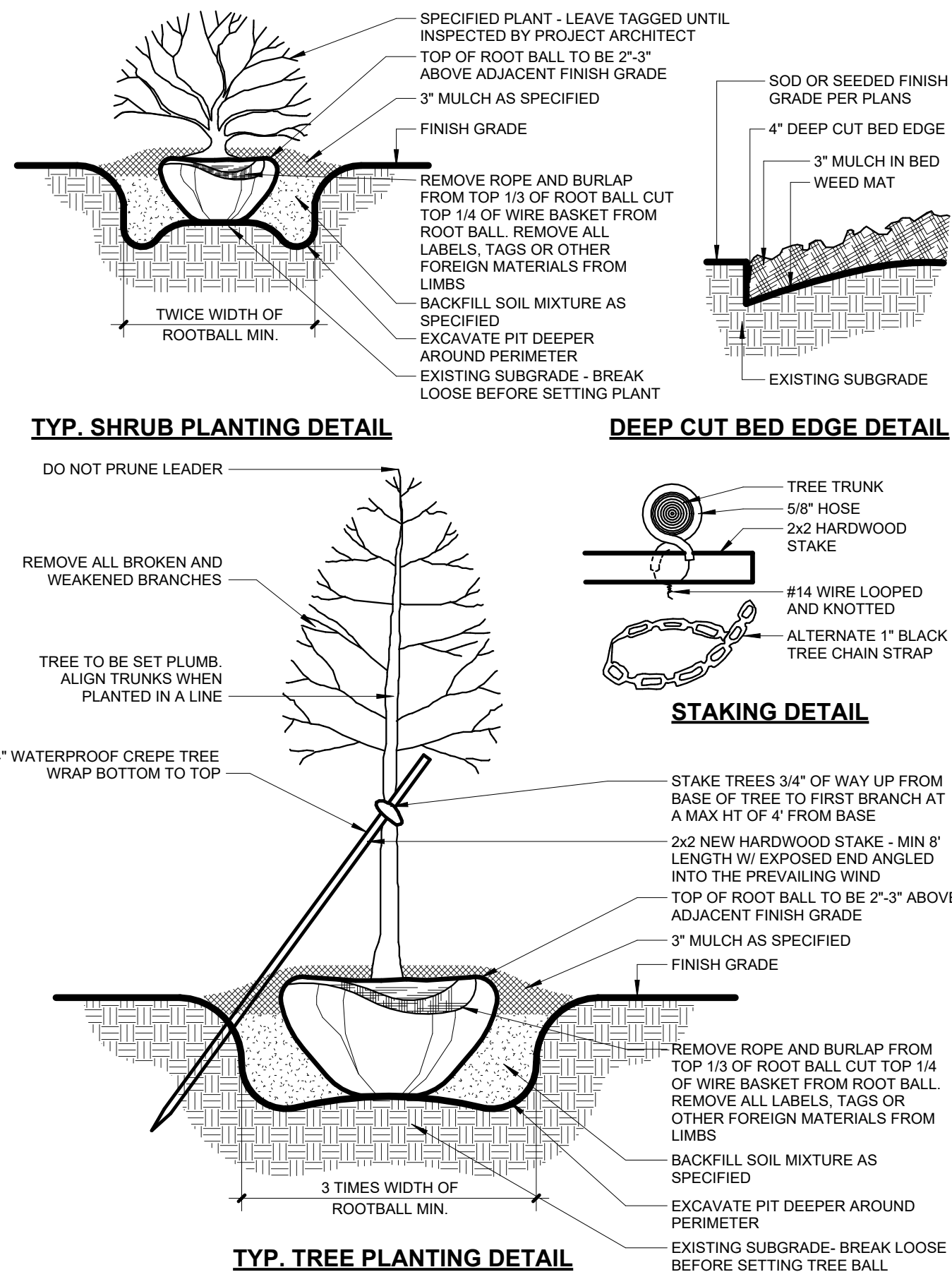
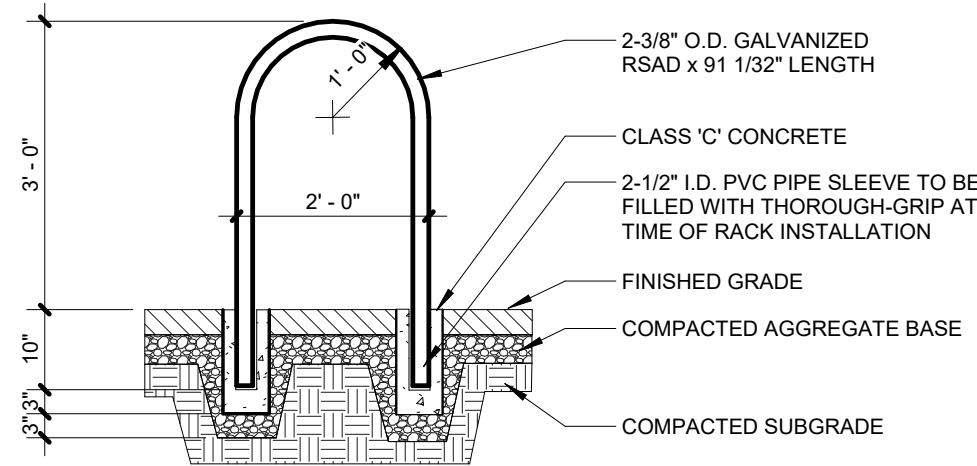
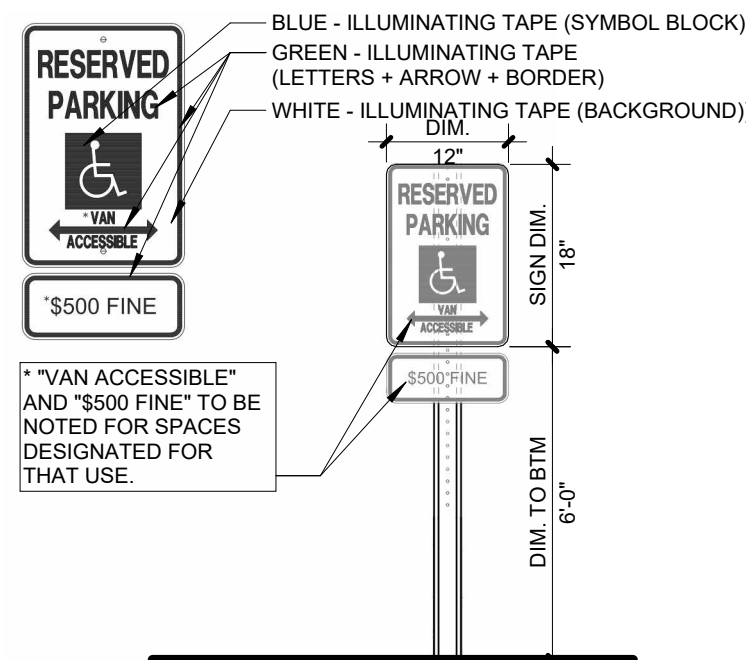
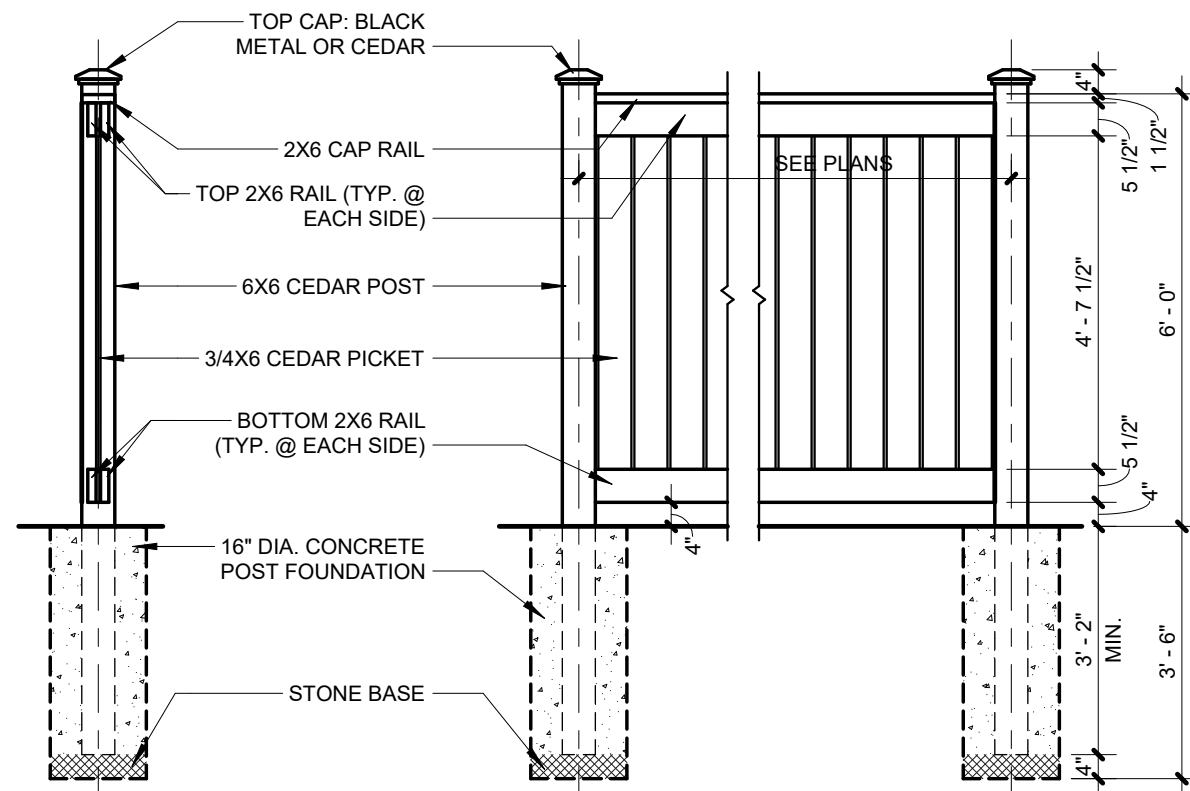
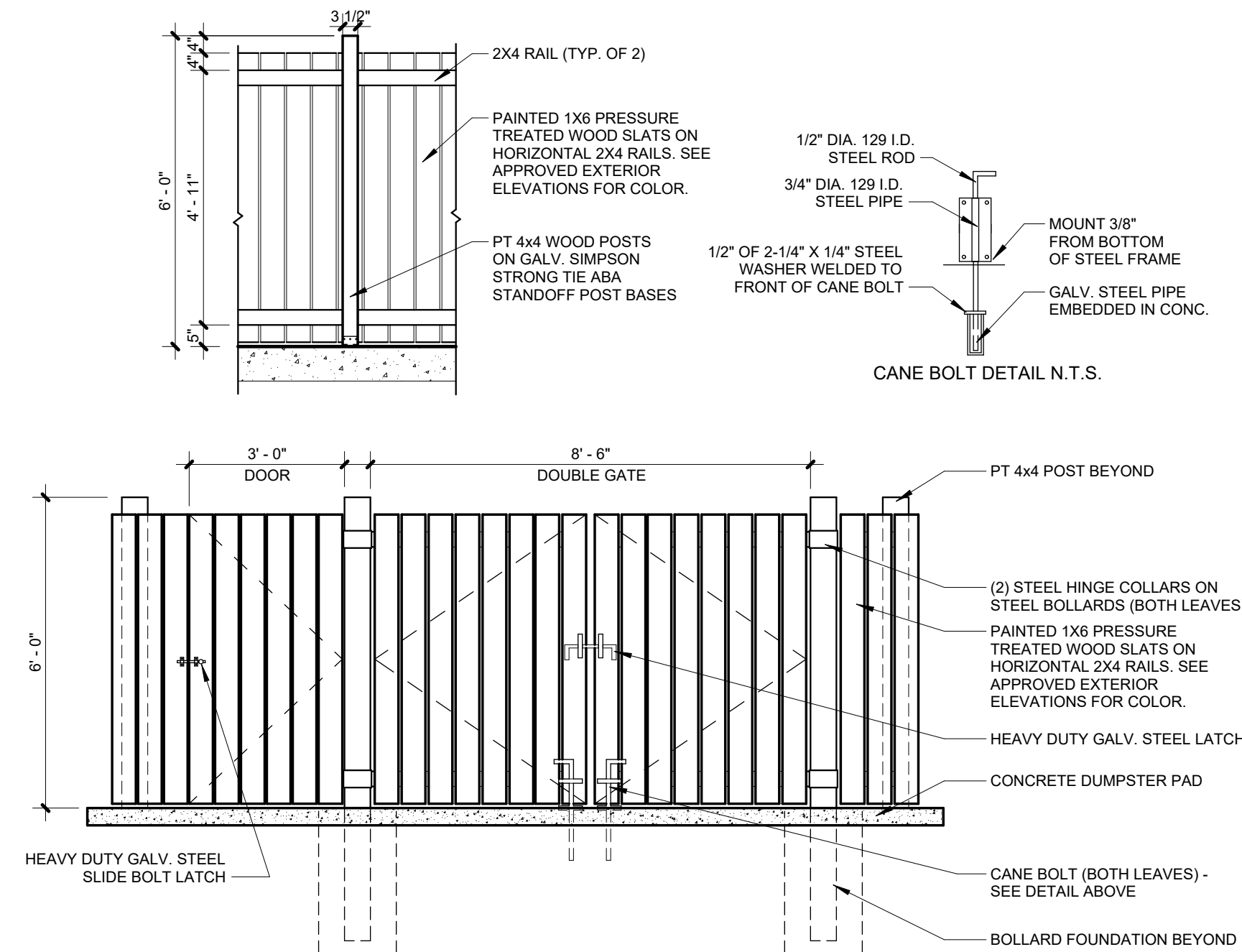
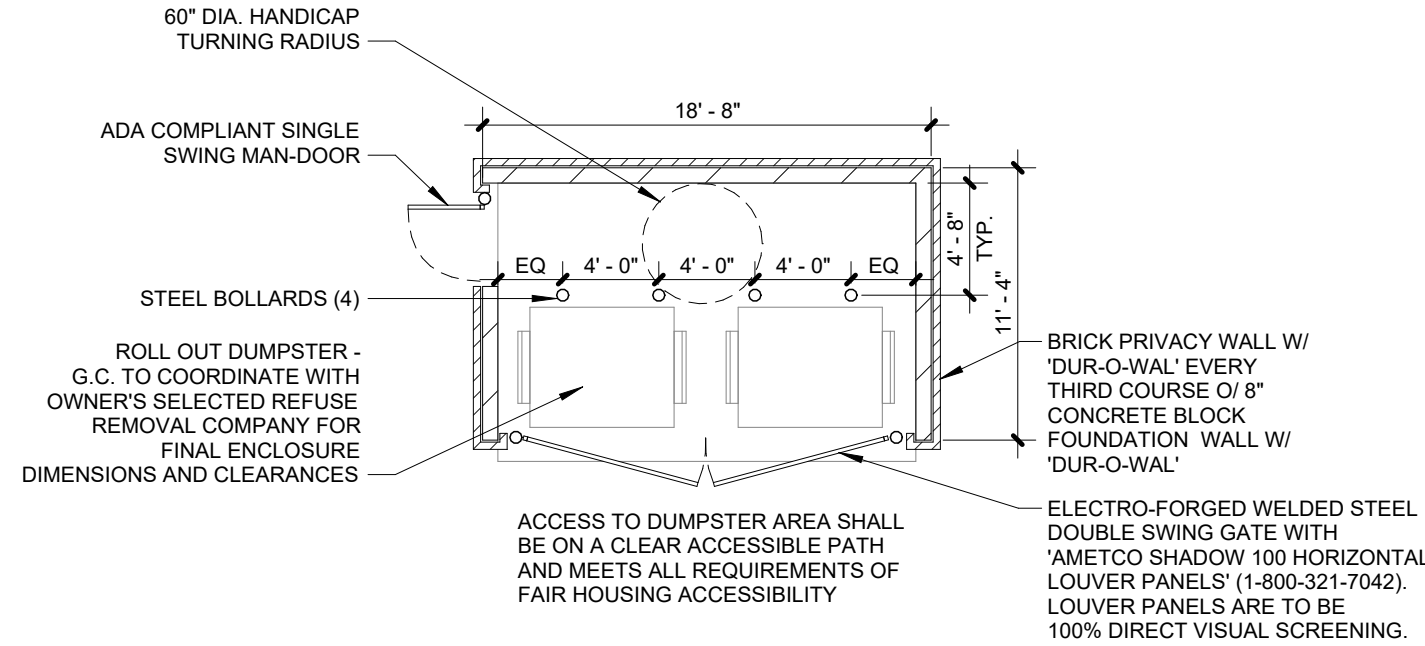
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PRICING PROVIDED.

PROJECT #: 26104 v1

APPLICATION
DRAWINGS

PROJECT DATE: 03/11/26

G101
SITE DETAILSTHE ARRANGEMENTS DEPICTED HEREIN ARE THE
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1" = 1'-0"(E) BIKE LOOP DETAIL
1/2" = 1'-0"(D) ADA PARKING SIGN
6" = 1'-0"(C) TYP. WOOD FENCE DETAIL
3/8" = 1'-0"(B) DUMPSTER ENCLOSURE WOOD
3/8" = 1'-0"(A) DUMPSTER ENCLOSURE - PLAN
1/8" = 1'-0"

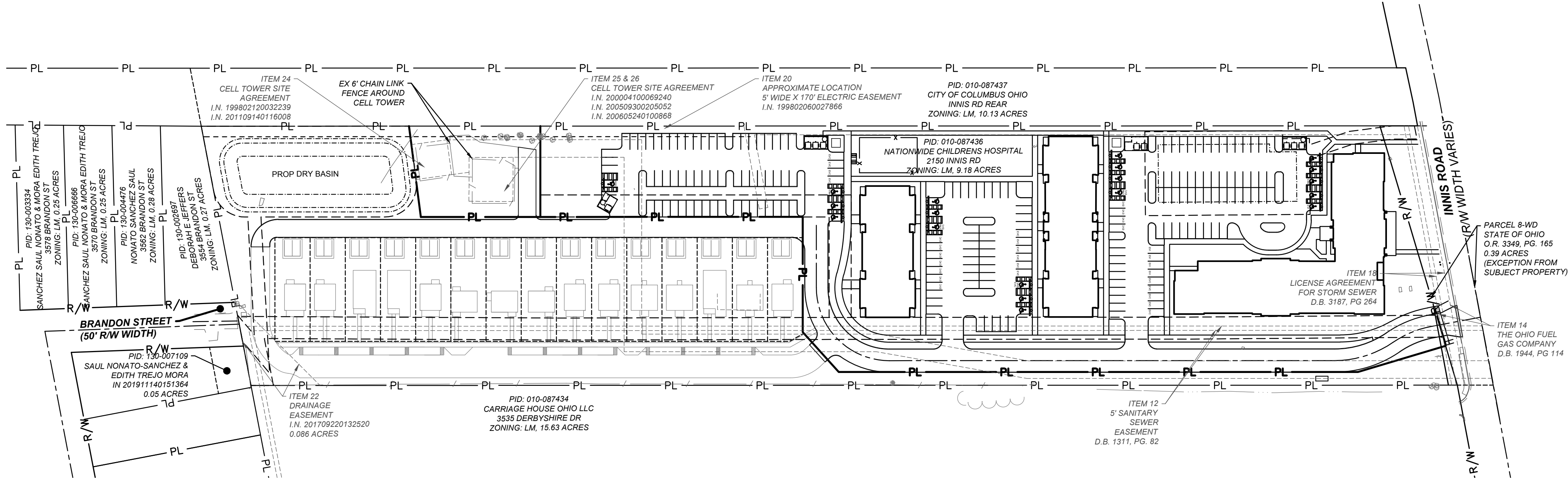
INDEX OF SHEETS

- C001 TITLE SHEET
C002 GENERAL NOTES
C003 SITE DETAILS
C100 EXISTING CONDITIONS & DEMOLITION PLAN
C101 EXISTING CONDITIONS & DEMOLITION PLAN
C200 OVERALL SITE PLAN
C300 SITE PLAN
C301 SITE PLAN

PRIVATE SITE CONSTRUCTION DOCUMENTS
FOR
INNIS APARTMENTS
2150 INNIS ROAD
CITY OF COLUMBUS, FRANKLIN COUNTY, OHIO



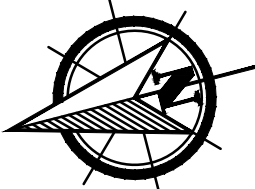
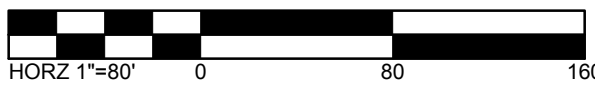
VICINITY MAP
1" = NTS



OWNER/DEVELOPER
NATIONWIDE CHILDREN'S HOSPITAL
255 E MAIN STREET
COLUMBUS, OHIO 43215
CONTACT: JORDAN HENDERSON
PHONE: (614) 722-6253
EMAIL: JORDAN.HENDERSON@NATIONWIDECHILDRENS.ORG

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THE COLUMBUS DESIGN COMPANY
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COLUMBUS, OH 43219
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PHONE: (614) 269-5019
EMAIL: KARRICK@THECOLUMBUSDESIGNCOMPANY.COM

ENGINEER
AMERICAN STRUCTUREPOINT
2550 CORPORATE EXCHANGE DRIVE, SUITE 300
COLUMBUS, OHIO 43231
CONTACT: ALICE ALDIS
PHONE: (614) 901-2235
EMAIL: AALDIS@STRUCTUREPOINT.COM



BASIS OF BEARINGS

BEARINGS SHOWN HEREON ARE MEASURED FROM GRID NORTH, REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION

HORIZONTAL CONTROL

COORDINATES ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION. A PROJECT ADJUSTMENT FACTOR OF 1.0000353509 WAS APPLIED ABOUT C.P. 1500 TO OBTAIN GROUND COORDINATES.

C.P.	DESCRIPTION	NORTHING (GROUND)	EASTING (GROUND)	ELEVATION
1500	5/8 INCH REBAR W/CAP STAMPED "ASI CONTROL POINT" SET 9.2 FEET FROM THE EDGE OF PAVEMENT, 123.7 FEET EAST FROM A POWERPOLE, 147.4 FEET SOUTHWEST FROM A POWERPOLE	742802.751	1840404.621	872.37
1501	MAG NAIL SET 4.2 FEET FROM THE SOUTH EDGE OF PAVEMENT, 11.4 FEET NORTHWEST FROM A POWERPOLE, 119.3 FEET SOUTHWEST OF A POWERPOLE	742781.668	1840542.613	870.96
1502	MAG NAIL SET 6.8 FEET FROM THE SOUTH EDGE OF PAVEMENT, 43.4 FEET NORTHEAST FROM A POWERPOLE, 43.7 FEET NORTHEAST OF A FENCE CORNER	742838.139	1840330.780	872.28
1503	5/8 INCH REBAR W/CAP STAMPED "ASI CONTROL POINT" SET 13.0 FEET NORTH FROM A FIRE HYDRANT, 14.6 FEET SOUTHEAST OF A FEET FROM A SIGN, 85.4 FEET SOUTHWEST FROM ANOTHER SIGN	742372.979	1840210.248	871.35
1504	5/8 INCH REBAR W/CAP STAMPED "ASI CONTROL POINT" SET 5.7 FEET NORTH FROM A CONCRETE CURB, 3.5 FEET EAST OF A STORM MANHOLE, 38.8 FEET SOUTH FROM A POWERPOLE	742346.921	1840462.502	875.02
1505	5/8 INCH REBAR W/CAP STAMPED "ASI CONTROL POINT" SET 23.5 FEET EAST FROM A FENCELINE, 90.1 FEET NORTHWEST OF A CORNER STEEL COLUMN, 110.0 FEET NORTHWEST FROM THE NEXT STEEL COLUMN SOUTH	743299.202	1840437.939	872.87
1506	5/8 INCH REBAR W/CAP STAMPED "ASI CONTROL POINT" SET 34.7 FEET WEST FROM A FENCELINE, 35.6 FEET SOUTHEAST OF A CORNER STEEL COLUMN, 36.5 FEET SOUTHEAST FROM THE NEXT STEEL COU MN SOUTH	743163.165	1840634.480	872.76

VERTICAL CONTROL

ELEVATIONS ON CONTROL POINTS AND TEMPORARY BENCHMARKS FROM A DIFFERENTIAL LEVEL CIRCUIT FROM FRANKLIN COUNTY ENGINEER BENCHMARK "PRC 26-57" AT NAVD 88 ELEVATION 870.00 FEET

B.M.	DESCRIPTION	NORTHING (GROUND)	EASTING (GROUND)	ELEVATION
TBM 100	CHISELED "X" ON ARROW BOLT OF A FIRE HYDRANT	N/A	N/A	873.52
TBM 101	"X" ON THE EAST SIDE OF A SANITARY MANHOLE	N/A	N/A	872.96

DEVELOPMENT DATA

ZONING:

PROPERTY OWNER: NATIONWIDE CHILDREN'S HOSPITAL

PARCEL ID: 010-087436

ADDRESS: 2150 INNIS ROAD, COLUMBUS, OHIO 43224

EXISTING ZONING: M, MANUFACTURING

HEIGHT DISTRICT: H-35

PROPOSED USE - AREA A: 5.131 AC (138 DWELLING UNITS)
PROPOSED USE - AREA B: 3.706 AC (15 DETACHED SINGLE FAMILY W/ DETACHED GARAGE)
PROPOSED USE - AREA C: 0.338 AC (CELL TOWER PARCEL SPLIT)

FEMA FLOODPLAIN: 39049C0187K, EFF: 6/17/2008

SITE DATA:

TOTAL SITE AREA: 9.178 AC

TOTAL DISTURBED AREA: 8.837 AC

PRE-DEVELOPED IMPERVIOUS AREA: 3.25 AC

POST-DEVELOPED IMPERVIOUS AREA: 5.86 AC

PARKING DATA:

PROPOSED MULTI-FAMILY SPACES: 207 REGULAR SPACES, 19 ADA SPACES

PROPOSED SINGLE FAMILY SPACES: 30 SPACES

PROPOSED PARKING SPACES: 256 SPACES

PRIVATE SITE CONSTRUCTION DOCUMENTS
FOR
INNIS APARTMENTS
CITY OF COLUMBUS, FRANKLIN COUNTY, OHIO
TITLE SHEET

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OR REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	5/27/2026
DRAWN BY:	HSR
CHECKED BY:	APA
JOB NUMBER:	2022.03292

Ohio Utilities Protection Service
Call 811
before you dig

C001

PLOT SCALE: 1"=1' EDIT DATE: 3/4/25 - 2:24 PM EDITED BY: HREICHARD DRAWING FILE: \COLUMBUS\PROJECTS\2022\03292D - DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\SITE CONSTRUCTION DOCUMENTS\2022.03292 TS.DWG

GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO BIDDING. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR WORK THAT COULD HAVE BEEN IDENTIFIED BY A SITE VISIT OR CONSTRUCTION DOCUMENT REVIEW.

2. SPECIFICATIONS - PERFORM ALL WORK IN ACCORDANCE WITH CITY AND OHIO DEPARTMENT OF TRANSPORTATION (ODOT) MATERIAL SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS, INCLUDING ALL SUPPLEMENTS THERETO. IN CASE OF DISCREPANCY BETWEEN CITY AND ODOT REQUIREMENTS AND PROJECT SPECIFICATIONS, THE MORE STRICT SPECIFICATION SHALL APPLY. WHEREVER THE WORDS "STATE," "DEPARTMENT," OR "DEPUTY DIRECTOR" OCCUR, IT IS TO MEAN THE OWNER. WHEREVER THE WORD "ENGINEER" OCCURS, IT IS TO MEAN AMERICAN STRUCTUREPOINT, INC.

THIS PROJECT IS TO BE BID AND ADMINISTERED AS A LUMP SUM PROJECT. ALL REFERENCES TO UNIT PRICES AND METHODS OF MEASUREMENT FOR THE PURPOSE OF PAYMENT SHALL BE DISREGARDED.

3. IT IS THE CONTRACTORS RESPONSIBILITY TO ASCERTAIN THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION AND MARK ALL EXISTING UTILITIES 48 HOURS BEFORE CONSTRUCTION STARTS. CONTACT OUPS UTILITY LOCATING SERVICE TO FIELD LOCATE EXISTING UTILITIES. CONTACT UTILITY OWNER IF DAMAGE OCCURS DUE TO CONSTRUCTION.

4. PROTECT ALL EXISTING STRUCTURES AND UTILITIES WHICH ARE NOT SCHEDULED FOR REMOVAL.

5. BENCHMARKS - THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, SURVEY MONUMENTS, PROPERTY CORNERS, REFERENCE POINTS, AND STAKES. ANY BENCHMARK, PROPERTY CORNER, OR SURVEY MARKER DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESET BY AN OHIO REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

6. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.

7. PERMITS & LICENSES - THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND LICENSES NEEDED FOR THE CONSTRUCTION OF THIS PROJECT.

8. EXISTING SEWERS & STRUCTURES - THE CONTRACTOR SHALL REPLACE, TO THE SATISFACTION OF THE ENGINEER, ALL EXISTING MANHOLES, CATCH BASINS, DRAINS, SEWERS, AND APPURTENANCES REMOVED OR DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL REMOVE DEBRIS, SILT, ETC. FROM THE EXISTING MANHOLES AND CATCH BASINS WHICH HAVE BEEN AFFECTED BY CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL MAINTAIN SERVICE IN EXISTING SEWERS DURING CONSTRUCTION.

9. SAW-CUT - ALL EXISTING PAVEMENTS, WALKWAYS, CURBS, ETC. SHALL BE SAW-CUT BEFORE REMOVAL. IF DURING CONSTRUCTION, THE PAVEMENT, WALKWAY, CURB, ETC. IS DAMAGED BEYOND THE ORIGINAL SAW-CUT, THE DAMAGED AREA SHALL BE RE-CUT TO NEAT LINES, AS DIRECTED BY THE ENGINEER. SAW-CUT SHALL BE PERFORMED ALONG EXISTING JOINTS WHERE POSSIBLE. WHENEVER PORTIONS OF EXISTING PAVEMENT OR CURB ARE TO BE REMOVED ALLOWING PORTIONS OF THE PAVEMENT TO REMAIN, THE CONTRACTOR SHALL SAW-CUT THE ASPHALT OR CONCRETE PRIOR TO REMOVAL.

10. NON-RUBBER TIRED VEHICLES - NO NON-RUBBER TIRED VEHICLES SHALL BE MOVED ON EXISTING PAVEMENT TO REMAIN. EXCEPTIONS MAY BE GRANTED BY THE OWNER WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE OWNER.

11. CLEAN-UP - IT IS THE INTENT OF THE OWNER TO KEEP INCONVENIENCE TO THE SURROUNDING PROPERTIES TO AN ABSOLUTE MINIMUM. ALL WORK PRESCRIBED AND DESCRIBED IN THESE PLANS AND SPECIFICATIONS IS SITUATED IN IMPROVEMENT AREAS. ALL WORK IS TO CONTINUE ON A UNIFORM BASIS AND ON SCHEDULE, PARTICULARLY THE RESTORATION AND CLEANUP OF DISTURBED AREAS AFTER CONSTRUCTION. ALL DEBRIS, RUBBLE, UNSUITABLE MATERIALS, AND ITEMS NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF PROPERLY ACCORDING TO LOCAL CODES. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITION AND ELEVATION. ANY DIRT, SEDIMENT OR MUD DEPOSITED ON CITY STREETS ON OR OFF THE PROJECT SITE SHALL IMMEDIATELY BE CLEANED BY THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO PERFORM WEEKLY STREET CLEANING THROUGHOUT THE DURATION OF THE PROJECT. THIS MAY INCLUDE REMOVAL BY SWEEPING, POWER CLEANING, OR MANUAL METHODS. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.

12. ADDITIONAL COMPENSATION - THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SERVICES, AND RELATED ACCESSORIES FOR A COMPLETE PROJECT AS SHOWN AND DESCRIBED IN THE PLANS AND SPECIFICATIONS. SUBMISSIONS OF A BID SHALL BE CONSIDERED EVIDENCE THAT THE BIDDER IS SATISFIED WITH THE PLANS AND CONDITIONS AS SHOWN. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR COMPLIANCE WITH THE PLANS, SPECIFICATIONS, OR SPECIAL PROVISIONS.

13. SANITARY FACILITIES - THE CONTRACTOR SHALL FURNISH AND MAINTAIN SANITARY CONVENIENCE FACILITIES FOR THE WORKERS AND INSPECTORS FOR THE DURATION OF THE WORK.

14. STORAGE OF EQUIPMENT AND MATERIALS - ALL MATERIALS, INCLUDING PIPE, SHALL BE STORED IN AREAS TO MINIMIZE INCONVENIENCE AND LOSS OF USE TO OWNER PROPERTY. STORAGE EQUIPMENT, DURING NON-WORKING HOURS, SHALL ALSO COMPLY WITH THIS REQUIREMENT. COMPLIANCE WITH THIS REQUIREMENT ALONG WITH ADDITIONAL PROVISIONS OF THE CONTRACT SPECIFICATIONS SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THIS LEGAL RESPONSIBILITIES OR LIABILITIES FOR THE SAFETY OF THE PUBLIC. THE CONTRACTOR SHALL RECEIVE OWNER APPROVAL OF STORAGE AREAS PRIOR TO CONSTRUCTION.

15. CONTRACTOR LAYDOWN AREAS - CONTRACTOR STAGING, LAYDOWN, AND TRAILER AREAS WILL BE PROVIDED AT THE PROJECT SITE, COORDINATE EXACT LOCATION WITH THE OWNER. PROTECTION OF LAYDOWN AREAS AND STAGING AREAS ARE AS DEEMED NECESSARY BY THE CONTRACTOR. PROVIDE ORANGE CONSTRUCTION FENCE AROUND ALL LAYDOWN AREAS. ALL LAYDOWN AREAS AND STAGING AREAS SHALL BE RESTORED TO ORIGINAL CONDITION PRIOR TO ACCEPTANCE BY THE OWNER.

16. CONSTRUCTION PRACTICES - BEST CONSTRUCTION PRACTICES ARE TO BE IMPLEMENTED TO MINIMIZE WATER QUALITY IMPACTS. A SPILL CONTAINMENT KIT IS TO BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. SPILLS OF FUELS, OILS, CHEMICALS, OR OTHER MATERIALS WHICH COULD POSE A THREAT TO GROUNDWATER SHALL BE CLEANED UP IMMEDIATELY. IF THE SPILL IS A REPORTABLE AMOUNT (25 GALLONS OR MORE) THE LOCAL FIRE DEPARTMENT IS TO BE CONTACTED. PROVIDE SECONDARY CONTAINMENT OF ANY TEMPORARY FUEL STORAGE TANK AND/OR EQUIPMENT THAT HAS POTENTIAL FOR CAUSING A SPILL.

17. TESTING - REFER TO PROJECT MANUAL FOR TESTING AND INSPECTION REQUIREMENTS.
18. UTILITY PROTECTION - THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE OBTAINED FROM A TOPOGRAPHIC SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHOWN. THE CONTRACTOR SHALL EXPOSE UTILITIES AND STRUCTURES PRIOR TO THE CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. ANY DEVIATIONS FROM THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY, SUCH THAT, ANY MODIFICATIONS TO THE PROPOSED DESIGN CAN BE MADE. POTHOLES AND/OR EXCAVATIONS SHALL BE USED WHERE NECESSARY AND AS APPROVED BY THE OWNER. ITEMS SHALL BE EXPOSED SUFFICIENTLY IN ADVANCE TO MAINTAIN THE PROJECT SCHEDULE.

THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 72 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.

MECHANICAL DIGGING EQUIPMENT SHALL NOT BE USED FOR EXPOSING ANY UNDERGROUND UTILITY. ONLY HAND TOOLS MAY BE USED TO UNCOVER THE UTILITY AND THE UTILITY COMPANY SHALL BE NOTIFIED AND HAVE A REPRESENTATIVE PRESENT WHEN THE UTILITY IS EXPOSED.

LOCATE EXISTING UNDERGROUND UTILITIES IN THE AREAS OF THE WORK. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTING DURING EXCAVATION OPERATIONS. SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY FOR DIRECTIONS.

CONTRACTOR SHALL SUPPORT ALL EXISTING UTILITIES TRAVERSING THROUGH THE EXCAVATION. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED OUTSIDE OF THE PROJECT AREA, EXCEPT WHEN PERMITTED IN WRITING BY THE AFFECTED PARTY AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.

COOPERATE WITH THE OWNER AND THE PUBLIC UTILITY COMPANIES IN KEEPING THEIR RESPECTIVE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UTILITIES TO THE SATISFACTION OF THE UTILITY OWNER.

19. CONTRACTOR SHALL INSTALL A CONSTRUCTION FENCE, AS NECESSARY, TO KEEP ALL PEDESTRIANS SAFELY AWAY FROM WORK. FENCE SHALL BE 6" HIGH CHAIN LINK FENCE WITH GROUND MOUNTED POSTS OR TEMPORARY POSTS SECURELY ANCHORED.

20. ALL EXCAVATION, CONSTRUCTION, AND BACKFILL TO BE CONSTRUCTED UNDER THIS CONTRACT SHALL BE CONSTRUCTED UNDER DRY CONDITIONS. THE CONTRACTOR SHALL MAINTAIN ALL EXCAVATIONS IN A DE-WATERED, WORKABLE CONDITION, AND PROPER DE-WATERING MEASURES SHALL BE TAKEN AS DICTATED BY FIELD CONDITIONS. THE DISCHARGE OF SEDIMENT LADEN WATERS INTO ANY PUBLIC WATERCOURSE IS STRICTLY PROHIBITED. ALL SEDIMENTS MUST BE REMOVED PRIOR TO DISCHARGE.

21. HAZARDOUS MATERIALS - THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER AND THE OWNER'S REPRESENTATIVE, ANY MATERIAL ENCOUNTERED DURING EXECUTION OF THE WORK THAT THE CONTRACTOR SUSPECTS IS HAZARDOUS.

22. REPLACEMENT OF DRAIN TILE AND STORM SEWER - ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED, OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS THE EXISTING. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUB-DRAIN, STORM SEWER SYSTEM, OR PROVIDED WITH AN OUTLET INTO THE ROADWAY DITCH AS APPLICABLE. REPLACEMENT DRAIN TILE/STORM SEWER SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. REPLACEMENT WORK SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION.

23. SUBGRADE - REFER TO PROJECT GEOTECHNICAL REPORT REGARDING SUBGRADE RECOMMENDATIONS FOR THE PROJECT SITE.

24. OPEN TRENCH EXCAVATION - SLOUGHING AND CAVING OF EXCAVATIONS SHOULD BE ANTICIPATED WHERE SATURATED WEAK SOILS ARE ENCOUNTERED OR WHERE GRANULAR SEAMS AND LAYERS ARE PRESENT. ALL EXCAVATIONS MUST BE PERFORMED WITHOUT ENDANGERING THE CONSTRUCTION WORKERS. THEREFORE, IN ACCORDANCE WITH THE OSHA TRENCH/EXCAVATION REGULATIONS (OSHA 29 CFR PART 1926), FOR ANY EXCAVATIONS EXCEEDING A DEPTH OF 5 FEET IN WHICH WORKERS WILL BE ENTERING THE EXCAVATION/TRENCH, THE EXCAVATION SIDES MUST BE BRACED OR SLOPED TO THE REQUIRED MAXIMUM INCLINATION OR FLATTER (BASED ON THE SOIL TYPE AND STRENGTH).

ANY EXCAVATION INSTALLED USING AN OPEN TRENCH CONSTRUCTION METHOD COULD POTENTIALLY CAUSE DAMAGE TO EXISTING UNDERGROUND UTILITIES, STRUCTURES, OR PAVEMENT CURRENTLY LOCATED IN THE VICINITY OF THE PROPOSED UTILITY ALIGNMENT AND POSITIONED AT HIGHER ELEVATIONS THAN THE PLANNED EXCAVATION DEPTH. THIS WOULD APPLY TO EITHER THE TYPICAL OPEN CUT TRENCH THAT HAS NEAR VERTICAL SIDES OR A TRENCH BOX. THEREFORE, THE LATERAL DISTANCE, DEPTH OF THE EXISTING UTILITY, AND THE PLANNED EXCAVATION DEPTH MUST BE KNOWN TO DETERMINE WHETHER ADJACENT UNDERGROUND UTILITIES COULD BE AFFECTED BY THE EXCAVATION. THE RISK OF LATERAL MOVEMENT WITHIN THE INFLUENCE ZONE INCREASES WITH BOTH THE LENGTH OF THE EXCAVATION AND THE TIME THE TRENCH REMAINS OPEN.

WHERE BRACED EXCAVATIONS ARE REQUIRED, TRENCH EXCAVATIONS SHALL BE DIRECTLY BRACED AT THE TIME OF THE EXCAVATION. THE BRACING MUST BE DESIGNED AS A RIGID SYSTEM WITHOUT DEFLECTION ALONG ITS ENTIRETY, CONSTRUCTED "TIGHT" AGAINST THE RETAINED SOIL. THE BRACING SYSTEM CANNOT BE INSTALLED AFTER THE EXCAVATION IS MADE.

25. TRENCH BACKFILL - TRENCH COMPACTED BACKFILL SHALL BE PER ODOT ITEM 611 & 638.08. COMPACTED GRANULAR MATERIAL IS REQUIRED IN ALL TRENCHES UNDER PAVEMENT AREAS (DRIVEWAYS, STREETS, SIDEWALKS, ETC.) OR WHERE THE FRONT FACE OF TRENCHES PARALLELING THE PAVEMENT, ARE WITHIN 36" OF THE FACE OF CURB OR EDGE OF PAVEMENT. UNLESS SHOWN OTHERWISE ON THE PLANS, THE MATERIAL WILL EXTEND Laterally 36" BEYOND THE FACE OF CURB OR EDGE OF PAVEMENT FROM TRENCHES WHICH CROSS THE PAVEMENT. AT ALL POINTS OF CROSSING WATER MAINS OR OTHER SEWERS, THE BACKFILL SHALL BE OF GRANULAR MATERIAL BETWEEN THE DEEPER AND SHALLOWER PIPES.

26. PLAN CHANGES - GRADES AND ELEVATIONS SHOWN ON THE PLANS SHALL NOT BE REVISED UNDER ANY CIRCUMSTANCES WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE ENGINEER. INVERT ELEVATIONS SHALL NOT DEVIATE FROM PLAN ELEVATION BY MORE THAN 0.05 FOOT. FAILING TO MEET THE ABOVE REQUIREMENTS ARE CAUSE FOR REJECTION OF THE AFFECTED SECTION OF SEWER.
- DEMOLITION NOTES:

1. CONFIRM EXISTING CONDITIONS PRIOR TO BEGINNING WORK.

2. ALL CLEARING, GRUBBING, AND RELATED ACTIVITIES SHALL CONFORM TO ODOT ITEM 201. DISPOSE OF TREES OFF SITE.

3. ALL TREES, SAPLINGS, CROPS, GRASS, OR MONUMENTS LOCATED WITHIN THE WORK AREA WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS ARE TO BE PRESERVED, UNLESS NOTED TO BE REMOVED OR UNLESS APPROVAL TO REMOVE IS GIVEN IN WRITING BY THE ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY CLAIM FROM DAMAGE TO TREES, SAPLINGS, CROPS, OR GRASSES WHICH MAY OCCUR AS THE RESULT OF THE CONSTRUCTION OPERATIONS, DAMAGE TO SIGNS, FENCES, LAWN AREAS, HEDGES, FLOWERS, SHRUBBERY, ETC. AS A RESULT OF THE CONSTRUCTION SHALL BE RESTORED IN LIKE KIND AND CHARACTER TO THE SATISFACTION OF THE ENGINEER.
4. REMOVE ALL ON-GRADE SITE FEATURES WITHIN THE AREA OF WORK INCLUDING: SIDEWALKS, CURBS, CONCRETE FOUNDATIONS, CONCRETE AND ASPHALT PAVEMENT.

5. SAW-CUT, FULL DEPTH, EXISTING ASPHALT PAVEMENT AND CONCRETE CURB WHERE NEW WORK ABUTS EXISTING CONSTRUCTION. USE CARE TO SAW-CUT NEAT STRAIGHT LINES. WHEN SAW-CUTTING EXISTING CONCRETE, CUT ALONG EXISTING JOINT LINES WHEREVER POSSIBLE.

6. CONTRACTOR SHALL USE CAUTION TO PROTECT EXISTING SITE FEATURES TO REMAIN. REPLACE ANY DAMAGE AT NO COST TO THE OWNER.

7. LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS OFF-SITE IN ACCORDANCE WITH LOCAL CODES. NO ON-SITE BURNING.

8. USE ALL MEANS NECESSARY TO CONTROL DUST ON-SITE AND PREVENT TRACKING SOIL OFF-SITE.

9. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR EXISTING BUILDING AND/OR STRUCTURES DEMOLITION AND PROTECTION.
- EARTHWORK & GRADING NOTES:

1. NO CONSTRUCTION WORK WILL BE PERMITTED WITHOUT APPROVED PLANS AND INSPECTION.

2. ALL PAVEMENT ELEVATIONS REFER TO FINISHED PAVEMENT ELEVATION AT FACE OF CURB UNLESS OTHERWISE NOTED. ALL DIMENSIONS AND COORDINATES ARE TO FACE OF CURB OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.

3. THE CONTRACTOR SHALL LIMIT THE DISTURBED AREA AS MUCH AS POSSIBLE.

4. ALL GRADING OPERATIONS SHALL BE CONDUCTED IN A MANNER TO MINIMIZE THE POTENTIAL FOR SITE EROSION. EROSION CONTROL SHALL BE INSTALLED TO PREVENT SEDIMENT FROM RUNNING OFF ONTO ADJACENT PROPERTIES. ANY DAMAGE TO ADJACENT PROPERTIES MUST BE CORRECTED AND RESTORED, AT NO COST TO THE OWNER, AS SOON AS PERMISSION IS GRANTED FROM THE ADJACENT PROPERTY OWNER(S).

5. SOIL EROSION AND SEDIMENTATION BMP MEASURES SHALL BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND SHALL BE MAINTAINED AT ALL TIMES UNTIL CONSTRUCTION HAS BEEN COMPLETED, INCLUDING ALL GRASS BEING WELL ESTABLISHED AND/OR PERMANENT EROSION AND SEDIMENTATION BMP MEASURES IN PLACE. ALL BMP MEASURES SHALL BE TO THE SATISFACTION OF THE LOCAL AUTHORITY AND OHIO EPA.

6. USE ALL MEANS NECESSARY TO CONTROL DUST ON THE SITE AND PREVENT TRACKING SOIL OFF-SITE. CONTRACTOR SHALL, AT THE END OF EACH WORKING DAY, CLEAN ALL DIRT AND SEDIMENT TRACKED ONTO THE STREETS.

7. REMOVE SEDIMENT FROM DETENTION AREAS, OUTLET STRUCTURES, AND ALL UNDERDRAINS ONCE FINAL SEED HAS BEEN ESTABLISHED.

8. CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL THROUGHOUT THE SITE PRIOR TO EXCAVATION. UPON COMPLETION OF FINAL GRADING, PROVIDE MINIMUM 6" OF TOPSOIL AND SEED ALL AREAS DISTURBED BY CONSTRUCTION, INCLUDING LAYDOWN AREAS AND TRAILER LOCATIONS, IF LOCATED OUTSIDE THE GRADING/SEEDING LIMITS.

9. EXCAVATION AND EMBANKMENT SHALL COMPLY WITH ODOT ITEM 203 AND LOCAL AUTHORITY REQUIREMENTS.

10. THE CONTRACTOR'S BID SHALL BE COMPREHENSIVE AND INCLUDE ALL LABOR AND EQUIPMENT TO COMPLETE ALL EXCAVATION, FILL AND GRADING IN ACCORDANCE WITH THE APPROVED ENGINEERING PLANS AND SPECIFICATIONS.

11. EXCAVATION AND EMBANKMENT QUANTITIES DO NOT INCLUDE ANY PROVISION FOR UNDERCUTTING, FOOTINGS, OR UNSUITABLE MATERIAL.

12. ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

13. THE INTENT IS TO STRIP AND SALVAGE TOPSOIL FOR POTENTIAL RE-SPREADING ON THE SITE, IF APPROVED BY THE LANDSCAPE ARCHITECT AND/OR SPECIFICATIONS. TOPSOIL - AFTER COMPACTION - SHALL BE RE-SPREAD PRIOR TO SEEDING AND MULCHING. EXCESS TOPSOIL MAY BE REMOVED FROM THE SITE PROVIDING THERE IS ADEQUATE TOPSOIL REMAINING TO PROPERLY FINISH THE SITE, AS NOTED ABOVE. THE CONTRACTOR SHALL REFER TO THE LANDSCAPE DRAWINGS AND SPECIFICATIONS FOR ANY SPECIAL TOPSOIL OR PLANTING REQUIREMENTS.

14. AFTER THE TOPSOIL IS REMOVED, PROOFROLL THE PAVEMENT AND BUILDING AREA SUBGRADES TO BE FILLED PER ODOT ITEM 204. SOFT AREAS SHOULD BE UNDERCUT AND STABILIZED PRIOR TO FILLING OPERATIONS. RELATIVE DEPTH OF UNDERCUT WILL BE DETERMINED WHEN SOFT AREAS ARE DISCOVERED. THE TESTING AGENCY SHALL DETERMINE THE DEPTH AND EXTENT OF THE UNDERCUT.

15. TOPSOIL MIX AND DEPTHS SHALL BE PER LANDSCAPE DRAWINGS.

16. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS AND GEOTECHNICAL REPORT.

17. BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE II ACCORDING TO ODOT ITEM 613. ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.

18. ALL WET OR OTHERWISE UNSUITABLE SOILS MUST BE STABILIZED PRIOR TO PAVEMENT CONSTRUCTION. THIS MAY BE ACCOMPLISHED BY DRYING, REMOVAL & REPLACEMENT, DRYING & RE-COMPACTION, OR SOIL TREATMENT (LIME/CEMENT). MEANS AND METHODS SHALL BE DETERMINED BY OWNER'S TESTING AGENCY.

19. EXPOSE UTILITIES PRIOR TO BEGINNING WORK ON THAT UTILITY TO DETERMINE EFFECTS ON THE PROPOSED ALIGNMENT AND PROFILE. REPORT ELEVATION AND LOCATION TO THE ENGINEER IN ORDER THAT ANY CORRECTIONS TO THE ELEVATION AND LOCATION CAN BE MADE.

20. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.

21. ALL CONCRETE ADJACENT TO BUILDING SHALL BE SLOPED AWAY FROM BUILDING AT 2.0% UNLESS OTHERWISE NOTED ON THE PLANS.

22. PROVIDE POSITIVE DRAINAGE FROM BUILDINGS AT ALL TIMES.

23. HANDICAP PARKING AREAS SHALL NOT HAVE SLOPES IN ANY DIRECTION THAT EXCEED 2%.

24. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.

25. ALL INLETS SHALL BE CHANNELIZED.

26. PROVIDE 10' UNDERDRAINS IN FOUR DIRECTIONS AT ALL CATCH BASINS IN PAVEMENT AREAS, UNLESS OTHERWISE NOTED ON THE PLANS. UNDERDRAINS SHALL BE PLACED AT EACH STRUCTURE FACE EXTENDING IN A PERPENDICULAR DIRECTION.
27. OUTLET CURB UNDERDRAINS TO ADJACENT EXISTING UNDERDRAINS OR STORM SEWER SYSTEM.

28. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RINGS & COVERS.

29. ALL EXISTING VALVES, MANHOLES, AND OTHER APPURTENANCES TO REMAIN LOCATED WITHIN THE WORK LIMITS SHALL BE ADJUSTED TO FINISHED GRADE.

30. MAXIMUM FINISH SLOPES SHALL BE 4:1, UNLESS OTHERWISE NOTED. FOR SLOPES 3:1 OR GREATER PROVIDE EROSION CONTROL MATTING PER ODOT ITEM 671 OR AS OTHERWISE PROVIDED ON THE PLANS.

31. ALL DOWNSPOUT LEADER STORM SEWER CONNECTION SHALL BE MINIMUM 6" WITH A MINIMUM SLOPE OF 1.20% OR AS OTHERWISE NOTED.
- EARTHWORK NOTES (STANDARD):

EXCAVATE AND REMOVE UNSUITABLE MATERIAL AS DEFINED IN THE GEOTECHNICAL ENGINEERING REPORT, OF WHICH SHALL BE CONSIDERED A PART OF THESE CONTRACT DOCUMENTS:

A. STRIP AND STOCKPILE EXISTING TOPSOIL WITHIN GRADING/SEEDING LIMITS. FINAL STOCKPILE LOCATION TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE OWNER. SEED STOCKPILES IN ACCORDANCE WITH SPECIFICATIONS ON EROSION CONTROL PLAN, SEE SHEET XXX. REFER TO GEOTECHNICAL REPORT FOR EXISTING TOPSOIL DEPTHS.

B. SUBSEQUENT TO TOPSOIL REMOVAL, BENEATH PAVEMENT AREAS AND PROPOSED BUILDING PAD, PROOF-ROLL EXPOSED SUBGRADE WITH A FULLY-LOADED, TANDEM-AXLE DUMP TRUCK (OR EQUIVALENT) TO IDENTIFY POTENTIAL UNSUITABLE AND UNSTABLE SUBGRADE AREAS. IN LOCATIONS WHERE PROOF-ROLLING HAS FAILED, SOILS SHALL BE DISKED, DRIED AND RECOMPACTED, OR UNDERCUT AND REPLACED WITH COMPACTED ENGINEERED FILL, OR OTHERWISE IMPROVED AS DETERMINED BY THE TESTING AGENCY. IN AREAS WHERE OVER EXCAVATION HAS BEEN CHOSEN TO IMPROVE SUBGRADE, STOCKPILE OVER EXCAVATED SOILS FOR REUSE AS ENGINEERED FILL OR AS GENERAL SITE FILL IN LANDSCAPING AREAS.

C. ESTABLISHING THE GRADES SHOWN ON THIS PLAN WILL REQUIRE IMPORT/EXPORT OF MATERIAL. CONTRACTOR SHALL CONFIRM QUANTITIES.
- 

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PRIVATE SITE CONSTRUCTION DOCUMENTS
FOR
INNIS APARTMENTS
2150 INNIS ROAD
CITY OF COLUMBUS, FRANKLIN COUNTY, OHIO
GENERAL NOTES

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION

IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OR REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

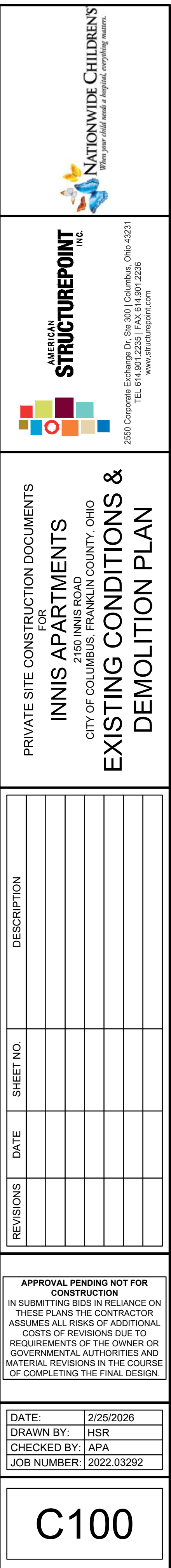
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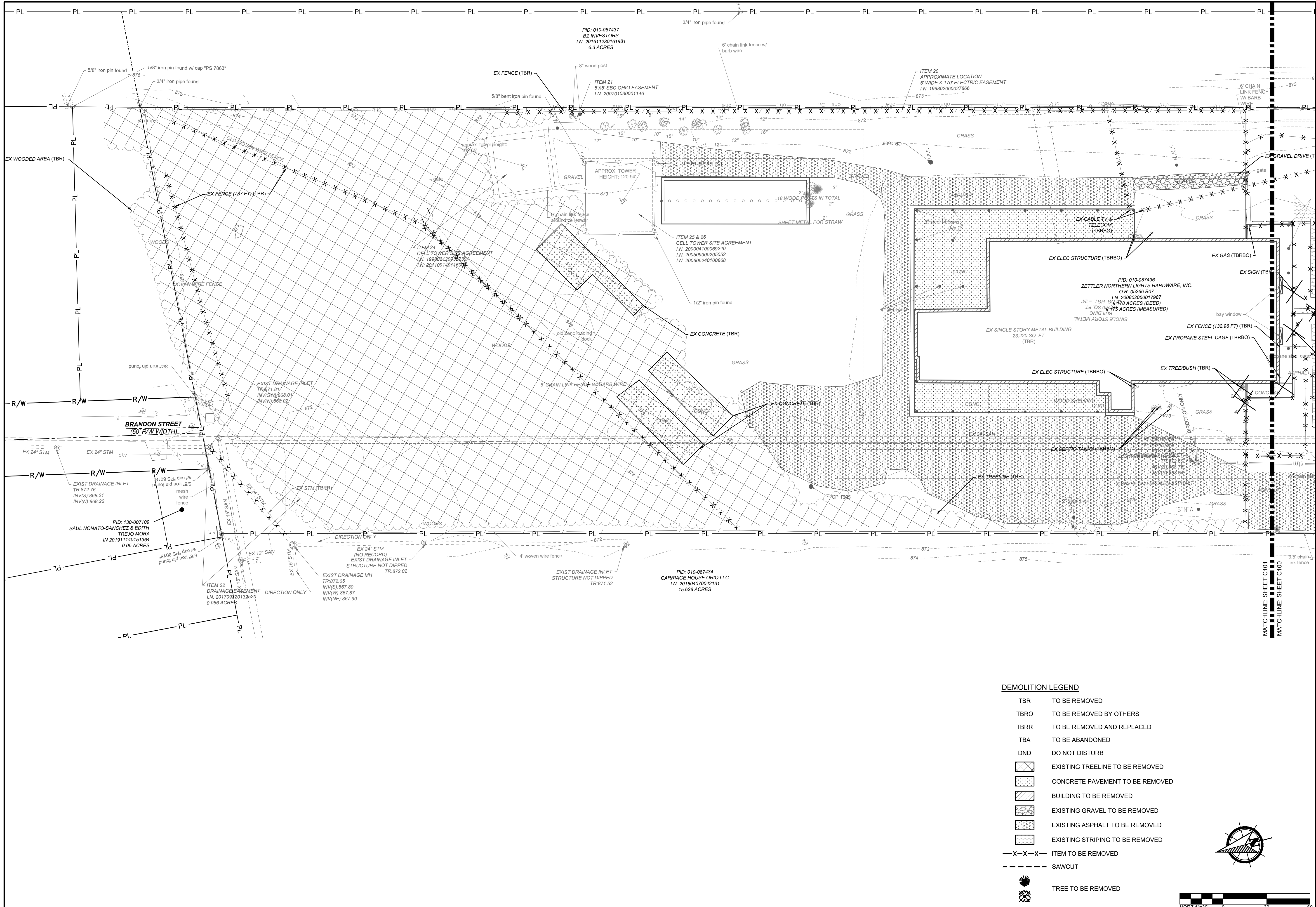
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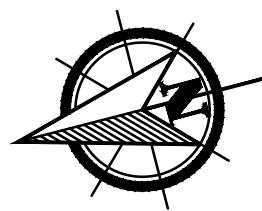
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- DEMOLITION LEGEND**
- TBR TO BE REMOVED
 - TBRBO TO BE REMOVED BY OTHERS
 - TBRR TO BE REMOVED AND REPLACED
 - TBA TO BE ABANDONED
 - DND DO NOT DISTURB
 - [Pattern] EXISTING TREELINE TO BE REMOVED
 - [Pattern] CONCRETE PAVEMENT TO BE REMOVED
 - [Pattern] BUILDING TO BE REMOVED
 - [Pattern] EXISTING GRAVEL TO BE REMOVED
 - [Pattern] EXISTING ASPHALT TO BE REMOVED
 - [Pattern] EXISTING STRIPING TO BE REMOVED
 - X-X-X- ITEM TO BE REMOVED
 - SAWCUT
 - [Symbol] TREE TO BE REMOVED



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PRIVATE SITE CONSTRUCTION DOCUMENTS FOR

INNIS APARTMENTS

2150 INNIS ROAD
CITY OF COLUMBUS, FRANKLIN COUNTY, OHIO

EXISTING CONDITIONS & DEMOLITION PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION

IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	2/25/2026
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JOB NUMBER:	2022.03292

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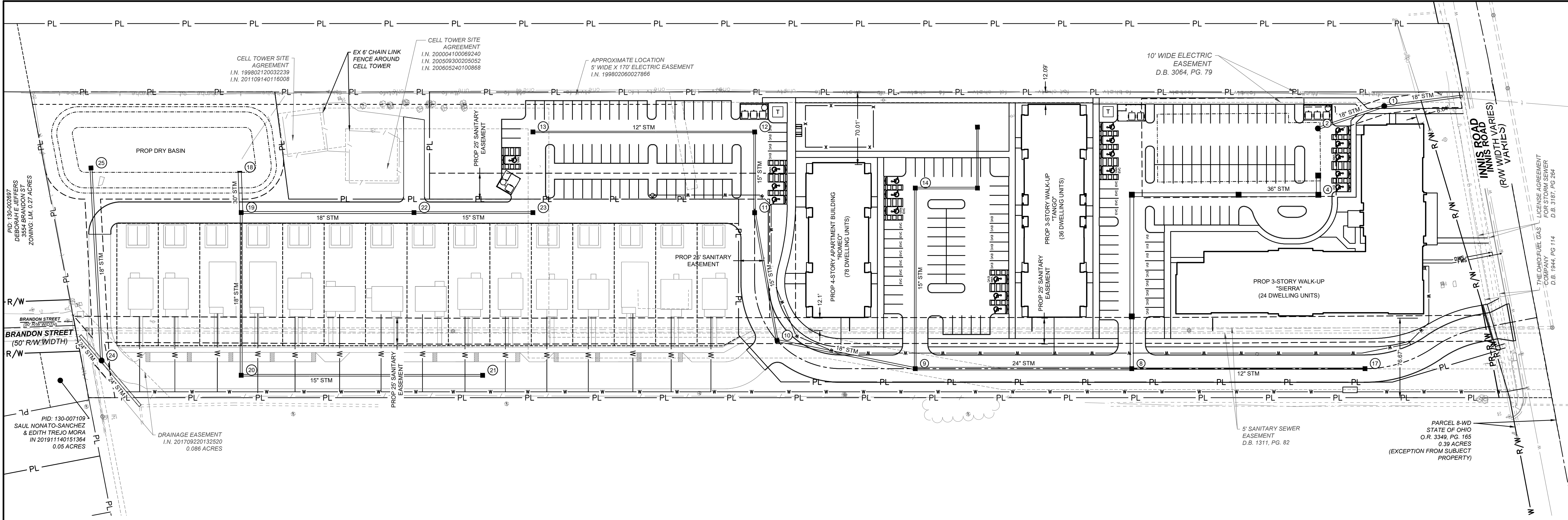
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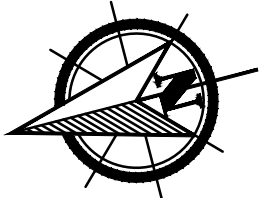
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SITE LEGEND

- PL — PROPERTY LINE
- R/W — RIGHT-OF-WAY
- [X] PARKING STALL COUNT
- STRAIGHT CURB
- FENCE
- PARKING BLOCK
- SIGN



PRIVATE SITE CONSTRUCTION DOCUMENTS
FOR
INNIS APARTMENTS
2150 INNIS ROAD
CITY OF COLUMBUS, FRANKLIN COUNTY, OHIO
OVERALL SITE PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

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JOB NUMBER:	2022.03292

C200



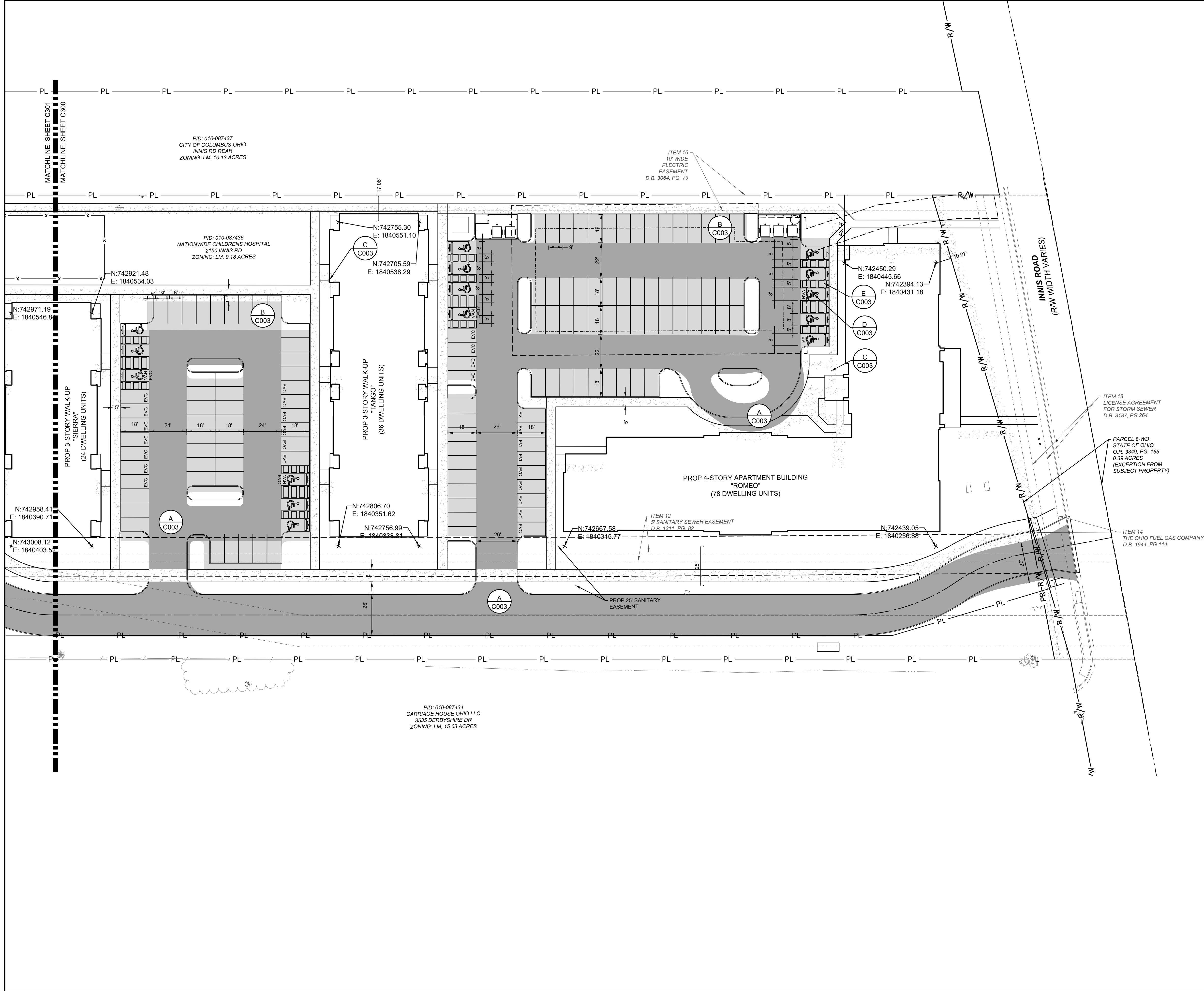
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PLOT SCALE: 1"=10' EDIT DATE: 2/25/26 5:37 PM EDITED BY: HREICHARD DRAWING FILE: \\COLUSAN\PROJECTS\2022\03292.D DRAWINGSCIVIL\CONSTRUCTION DOCUMENTS\2022\03292 SDP.DWG



- SITE LEGEND**
- PL ————— PROPERTY LINE
 - R/W ————— RIGHT-OF-WAY
 - X ————— PARKING STALL COUNT
 - ===== STRAIGHT CURB
 - ===== CURB AND GUTTER
 - □ ————— LIGHT POLE (BY OTHERS)
 - x ————— FENCE
 - ===== PARKING BLOCK
 - ===== SIGN
 - ————— CONCRETE BOLLARD
 - HEAVY DUTY ASPHALT PAVEMENT
 - STANDARD DUTY ASPHALT PAVEMENT
 - HEAVY DUTY CONCRETE
 - CONCRETE WALK
 - GRAVEL PATH
 - PAVEMENT MARKINGS

PRIVATE SITE CONSTRUCTION DOCUMENTS
FOR
INNIS APARTMENTS
2150 INNIS ROAD
CITY OF COLUMBUS, FRANKLIN COUNTY, OHIO

SITE PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	2/25/2026
DRAWN BY:	HSR
CHECKED BY:	APA
JOB NUMBER:	2022.03292

C300

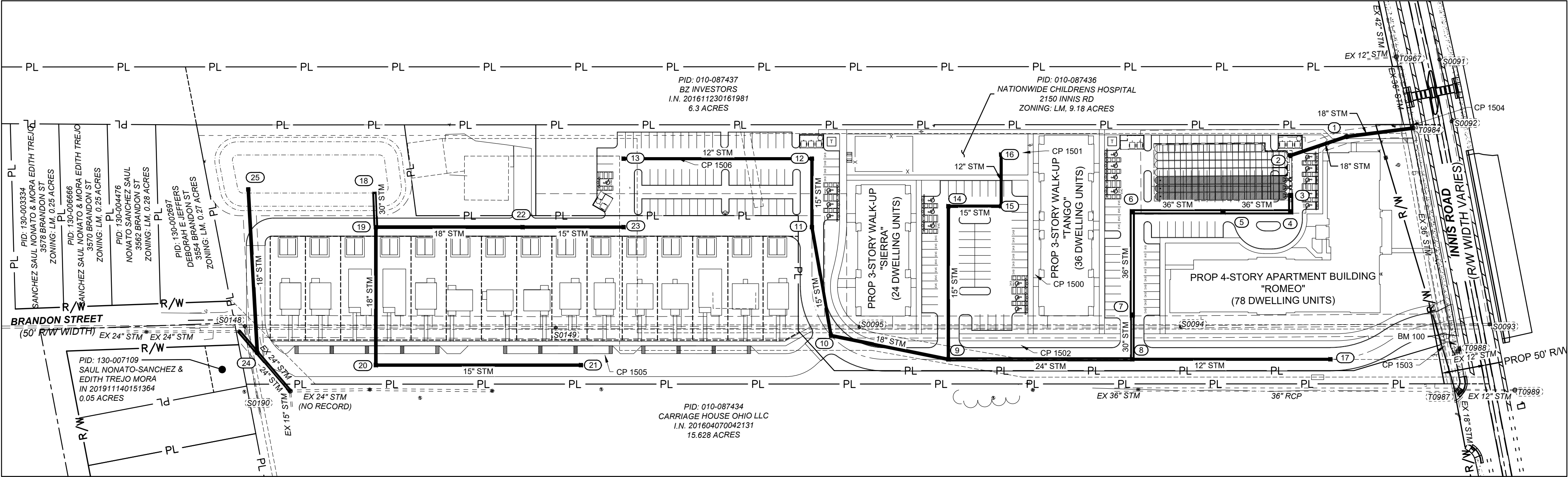
AMERICAN STRUCTUREPOINT INC.
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PLOT SCALE: 1"= 80' PM-179/236

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VICINITY MAP
1" = NTS

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BASIS OF BEARINGS

BEARINGS SHOWN HEREON ARE MEASURED FROM GRID NORTH, REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION

HORIZONTAL CONTROL

COORDINATES ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION. A PROJECT ADJUSTMENT FACTOR OF 1.0000353509 WAS APPLIED ABOUT C.P. 1500 TO OBTAIN GROUND COORDINATES.

C.P.	DESCRIPTION	NORTHING (GROUND)	EASTING (GROUND)	ELEVATION
1500	5/8 INCH REBAR W/CAP STAMPED "ASI CONTROL POINT" SET 9.2 FEET FROM THE EDGE OF PAVEMENT, 123.7 FEET EAST FROM A POWERPOLE, 147.4 FEET SOUTHWEST FROM A POWERPOLE	742802.751	1840404.621	872.37
1501	MAG NAIL SET 4.2 FEET FROM THE SOUTH EDGE OF PAVEMENT, 11.4 FEET NORTHWEST FROM A POWERPOLE, 119.3 FEET SOUTHWEST OF A POWERPOLE	742781.668	1840542.613	870.96
1502	MAG NAIL SET 6.8 FEET FROM THE SOUTH EDGE OF PAVEMENT, 43.4 FEET NORTHEAST FROM A POWERPOLE, 43.7 FEET NORTHEAST OF A FENCE CORNER	742838.139	1840330.780	872.28
1503	5/8 INCH REBAR W/CAP STAMPED "ASI CONTROL POINT" SET 13.0 FEET NORTH FROM A FIRE HYDRANT, 14.6 FEET SOUTHEAST OF A FEET FROM A SIGN, 85.4 FEET SOUTHWEST FROM ANOTHER SIGN	742372.979	1840210.248	871.35
1504	5/8 INCH REBAR W/CAP STAMPED "ASI CONTROL POINT" SET 5.7 FEET NORTH FROM A CONCRETE CURB, 3.5 FEET EAST OF A STORM MANHOLE, 38.8 FEET SOUTH FROM A POWERPOLE	742346.921	1840462.502	875.02
1505	5/8 INCH REBAR W/CAP STAMPED "ASI CONTROL POINT" SET 23.5 FEET EAST FROM A FENCELINE, 90.1 FEET NORTHWEST OF A CORNER STEEL COLUMN, 110.0 FEET NORTHWEST FROM THE NEXT STEEL COUNM SOUTH	743299.202	1840437.939	872.87
1506	5/8 INCH REBAR W/CAP STAMPED "ASI CONTROL POINT" SET 34.7 FEET WEST FROM A FENCELINE, 35.6 FEET SOUTHEAST OF A CORNER STEEL COLUMN, 36.5 FEET SOUTHEAST FROM THE NEXT STEEL COUNM SOUTH	743163.165	1840634.480	872.76

VERTICAL CONTROL

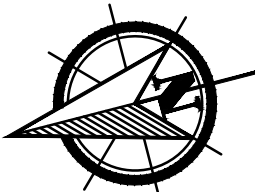
ELEVATIONS ON CONTROL POINTS AND TEMPORARY BENCHMARKS FROM A DIFFERENTIAL LEVEL CIRCUIT FROM FRANKLIN COUNTY ENGINEER BENCHMARK "PRC 26-57" AT NAVD 88 ELEVATION 870.00 FEET

B.M.	DESCRIPTION	NORTHING (GROUND)	EASTING (GROUND)	ELEVATION
TBM 100	CHISELED "X" ON ARROW BOLT OF A FIRE HYDRANT	N/A	N/A	873.52
TBM 101	"X" ON THE EAST SIDE OF A SANITARY MANHOLE	N/A	N/A	872.96

EASEMENT REFERENCE				REVISIONS			PLAN PREPARED BY: AMERICAN STRUCTUREPOINT INC. ALICE ALDIS E-87370 REGISTERED PROFESSIONAL ENGINEER
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE	
	VOL.	PAGE					

INDEX MAP

1" = 80'



RELATED PLANS

FINAL SITE COMPLIANCE PLAN
PRIVATE WATER SERVICE PLAN

SCP DETENTION/ ORIFICE STRUCTURE NOTE

STRUCTURES #2 & #25 CONTAINS A STORMWATER DETENTION BMP AND IS AN INTEGRAL PART OF THE STORM SEWER SYSTEM DEPICTED IN THESE DRAWINGS. RESPONSIBILITY AND ASSURANCE OF PERIODIC MAINTENANCE AND THE CONTINUANCE FUNCTIONALITY OF THIS STORMWATER DETENTION DEVICE IS PERPETUAL; BEGINNING WITH THE OWNER AT THE TIME OF INSTALLATION AND CONTINUING TO ALL FUTURE OWNERS OF SAID STORM SEWER SYSTEM.

SUMMARY OF POST-CONSTRUCTION STORMWATER CONTROL FACILITIES

CONTROL/ OUTLET STRUCTURE No.	PLAN VIEW & DETAIL PAGE NUMBERS FOR BMP	CONTROL FUNCTION	DRAINAGE AREA TO CONTROL FACILITY (ACRES)	FACILITY TYPE	GREEN INFRASTRUCTURE (SQ FT)
2	14	QUALITY/ QUANTITY	4.7100	UNDERGROUND BASIN	N/A
25	11	QUALITY/ QUANTITY	3.6480	DRY BASIN	N/A

100 YEAR DETENTION SUMMARY

LOCATION	VOLUME REQUIRED (CF)	VOLUME PROVIDED (CF)	100-YEAR ELEV (NAVD88)	ELEVATION PROVIDED
UNDERGROUND BASIN	42,731	43,177	867.26	871.66
DRY BASIN	25,506	40,989	871.50	872.50

NOTE: STORMWATER CONTROL PRACTICE (SCP) AS-BUILTS AND CERTIFICATION ARE REQUIRED FOR THE CONSTRUCTED SCPs ON THIS PLAN SET AS PART OF THE SURETY REQUIREMENTS FOUND WITHIN THE STORMWATER DRAINAGE MANUAL (SWDM) SECTION 4. PLEASE REFER TO SECTION 4 OF THE SWDM FOR THE FULL LIST OF REQUIREMENTS. PLEASE NOTE THAT IF THERE ARE STONE LAYERS USED AS PART OF THE STORAGE SYSTEM THAT THOSE LAYERS MUST BE SURVEYED DURING THE INSTALLATION BY OR UNDER THE DIRECT SUPERVISION OF A LICENSED SURVEYOR.

SANITARY NOTE

CONNECTION TO SANITARY SEWER CANNOT BE MADE UNTIL PERMIT IS OBTAINED FROM SEWER PERMIT OFFICE AT 111 NORTH FRONT STREET.

SITE DATA TABLE

NOI	XXXXX
TOTAL DISTURBED AREA	X.XX ACRES
SITE DISTURBED AREA	X.XX ACRES
PRE-DEVELOPED SITE IMPERVIOUS AREA	X.XX ACRES
POST-DEVELOPED SITE IMPERVIOUS AREA	X.XX ACRES
R/W DISTURBED AREA	X.XX ACRES*
TOTAL DISTURBED IMPERVIOUS AREA	X.XX ACRES
R/W PRE-DEVELOPED IMPERVIOUS AREA	X.XX ACRES
R/W POST-DEVELOPED IMPERVIOUS AREA	X.XX ACRES
FEMA MAP & ZONE	ZONE X; XXXXXXXX (EFF. XX/XX/XXXX)

* R/W DISTURBANCE ASSOCIATED WITH THIS PROJECT IS ACCOUNTED FOR AND ADDRESSED WITHIN THIS CC STORM PLAN. SEE THE STORMWATER MANAGEMENT REPORT ASSOCIATED WITH THIS CC STORM PLAN FOR MORE DETAILS

STANDARD DRAWINGS

THE STANDARD CONSTRUCTION DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF.

CITY OF COLUMBUS		
1441	AA-S102	AA-S151
1500	AA-S112	AA-S161
1510	AA-S119	AA-S169
2000	AA-S133A	
2002	AA-S133B	
2179	AA-S139	
2202	AA-S141	
2230	AA-S149	
2319	AA-S150	

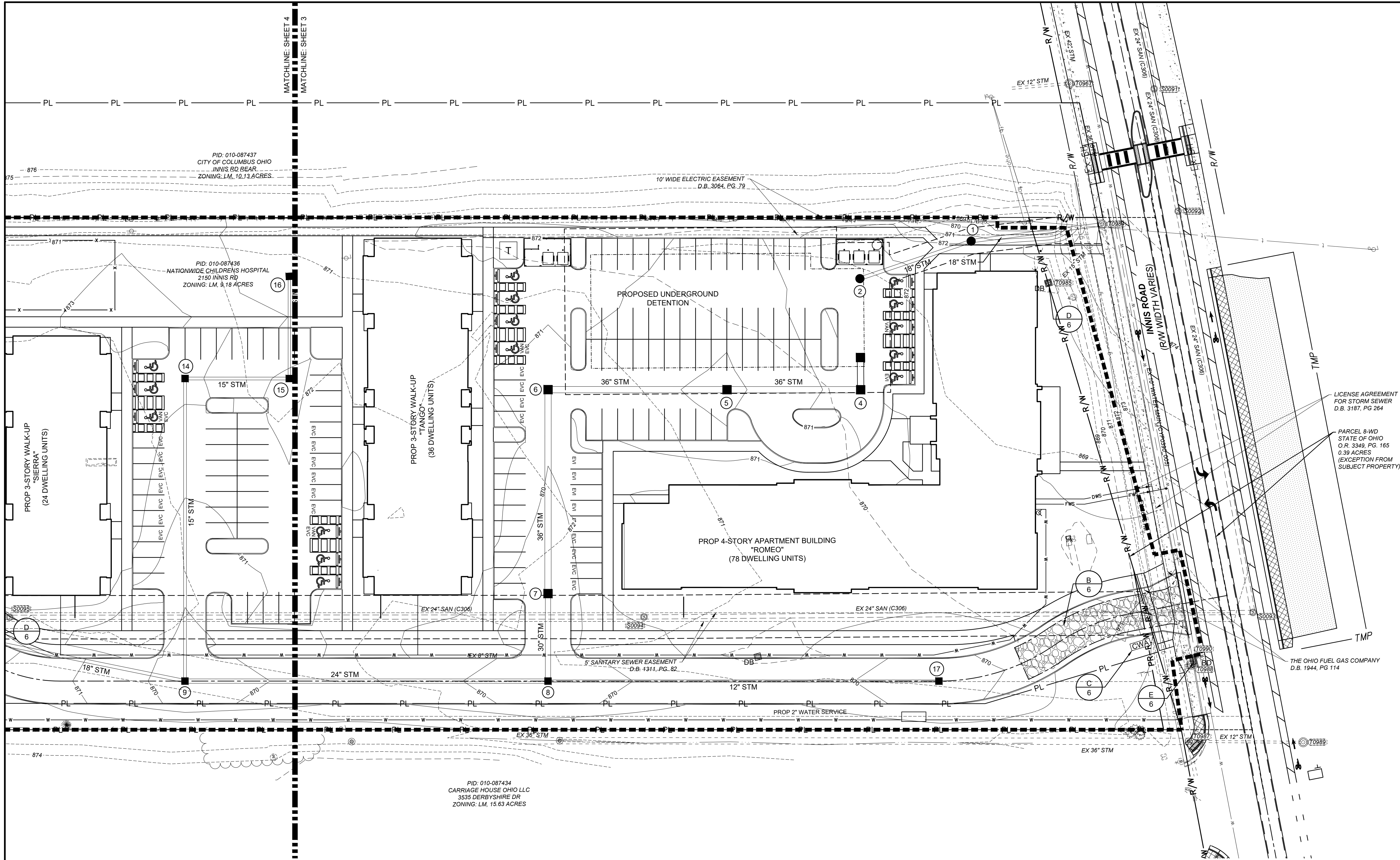
Ohio Utilities Protection Service



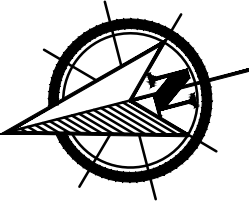
PM-179/236

PROJECT TITLE: PRIVATE STORM SEWER, GRADING AND DETENTION AREAS FOR INNIS APARTMENTS 2150 INNIS ROAD COLUMBUS, FRANKLIN COUNTY, OHIO						CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER RECLAMATION DIVISION USE ONLY									
DIVISION USE ONLY				OWNER		SCALE: 1" = 80'						SHEET 1 / 21			
				CONTRACTOR											
				INSPECTOR				CONTRACT DRAWING NO. CC-XXXXX						RECORD PLAN NO.	
				AGREEMENT		COMPLETED									
				RPD	CKD	CID	CON DR.								
				INDEX DETAIL		RECORD FILE									

PLOT SCALE: 1" = 30' DATE: 5/20/26 - 3:45 PM EDITED BY: BRYDEN DRAWING FILE: \\COLUSAN\PROJECTS\2022\03292D - DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\CC STORM\2022_03292 ECP.DWG



- EROSION CONTROL LEGEND**
- xxx--- PROPOSED MAJOR CONTOUR
 - xxx--- PROPOSED MINOR CONTOUR
 - - -xxx- - - EXISTING MAJOR CONTOUR
 - - -xxx- - - EXISTING MINOR CONTOUR
 - LIMITS OF DISTURBANCE
 - SF --- SILT FENCE
 - FS --- FILTER SOCK
 - O --- ORANGE CONSTRUCTION FENCE
 - > O O O--- SWALE
 - <--- TEMPORARY DIVERSION CHANNEL
 - [CWA] CONCRETE WASHOUT AREA
 - [CD] CHECK DAM
 - [] SILT FENCE INLET PROTECTION
 - [DB] DANDY BAG INLET PROTECTION
 - [BD] BEAVER DAM INLET PROTECTION
 - [] STABILIZED CONSTRUCTION ENTRANCE
 - [] ROCK CHANNEL PROTECTION



EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE				

PLAN PREPARED BY:



AMERICAN
STRUCTUREPOINT
INC.

EROSION CONTROL PLAN

PROJECT TITLE: PRIVATE STORM SEWER, GRADING AND DETENTION AREAS FOR INNIS APARTMENTS 2150 INNIS ROAD COLUMBUS, FRANKLIN COUNTY, OHIO			
DIVISION USE ONLY		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT	COMPLETED
		RPD	CKD
		CID	CON.DR.
		INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER RECLAMATION DIVISION USE ONLY	
SCALE: 1" = 30'	SHEET 3 / 21
CONTRACT DRAWING NO. CC-XXXXX	RECORD PLAN NO.

PLOT SCALE: 1:1 EDIT DATE: 5/20/26 - 3:45 PM EDITED BY: JBRYDEN DRAWING FILE: \COLLIANS\PROJECTS\2023\2322\0_DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\CC STORM\2022_03\292 ECP.DWG

SITE NARRATIVE

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EXISTING SITE CONDITIONS:

THERE IS AN EXISTING HARDWARE STORE AND PARKING LOT IN THE MIDDLE OF THE SITE. BETWEEN INNIS ROAD AND THE PARKING LOT IS A LARGE GRASS LAWN. THE BACK OF THE SITE HAS A SHED, CELL TOWER AND WOODED AREA.

PROJECT DESCRIPTION:

ACTIVITIES INCLUDE THE CONSTRUCTION OF THREE APARTMENT BUILDINGS, 15 SINGLE FMAILY HOMES, ASSOCIATED UTILITIES, DRIVES, SIDEWALK AND PAVEMENT IMPROVEMENTS.

RECEIVING STREAM:

UNNAMED DITCHES TO SOUTH WEST, EVENTUALLY DRAINING TO ALUM CREEK.

DISTURBED AREA:

9.01 ACRES

SITE BMPS:

FINAL LOCATIONS OF ALL SITE BMPS, INCLUDING DUMPSTERS, VEHICLE FUELING AREAS, CONCRETE TRUCK WASH, MATERIAL STORAGE, AND TOPSOIL STOCKPILES SHALL BE DETERMINED BY CONTRACTOR. IF FINAL LOCATION OF BMPS DIFFER FROM THE LOCATIONS SHOWN, CONTRACTOR SHALL MODIFY SWPPP AND INFORM OHIO EPA OF NEW LOCATIONS OF BMPS.

ADJACENT AREAS:

EAST: COMMERCIAL BUILDING & PARKING
NORTH: WOODED AREA
WEST: RESIDENTIAL AREA
SOUTH: COMMERCIAL AREA

GRADING REQUIREMENTS:

DISTURBED AREAS WILL BE PROTECTED BY SILT FENCE, ROCK CHECK DAMS, AND TEMPORARY SEDIMENT BASINS AS SHOWN ON THE PLAN. AREAS WILL BE STABILIZED WHEN GRADED TO PREVENT EROSION ON THE SITE.

EROSION & SEDIMENT CONTROL MEASURES:

A COMBINATION OF MEASURES WILL BE USED TO PROVIDE EROSION & SEDIMENT CONTROL, INCLUDING SILT FENCE AND SEEDING.

PROVIDE INLET PROTECTION AT ALL NEW AND EXISTING DRAINAGE STRUCTURES.

ANY OFF SITE BORROW OR SPOIL AREAS SHALL BE SUBJECT TO THE REQUIREMENTS SET FORTH BY THE OHIO EPA. ALL EROSION AND SEDIMENT CONTROL MEASURES FOR OFF-SITE AREAS NOT COVERED BY A SEPARATE NOI OR SWPPP SHALL BE COORDINATED WITH THE OHIO EPA.

ALL TRENCH OR EXCAVATION GROUNDWATER CONTAINING SEDIMENT MUST BE EFFECTIVELY TREATED PRIOR TO DISCHARGE INTO THE STORM SEWER SYSTEM.

USE ALL MEANS NECESSARY TO CONTROL DUST ON THE SITE AND PREVENT TRACKING SOIL OFF SITE.

PERMANENT STABILIZATION:

THE SITE WILL BE STABILIZED BY THE USE OF SEEDING OR SODDING IN LAWN AREAS.

MAINTENANCE:

ALL EROSION CONTROL DEVICES ARE TO BE INSPECTED BY THE CONSTRUCTION SUPERINTENDENT WEEKLY AND AFTER SIGNIFICANT RAINFALLS. ANY DAMAGED FACILITIES ARE TO BE REPLACED OR REPAIRED IMMEDIATELY AS MAY BE NECESSARY.

GENERAL CONSTRUCTION SEQUENCE:

(UNLESS NOTED OTHERWISE, ALL EROSION AND SEDIMENT CONTROL MEASURES FROM THE BEGINNING OF EARTH DISTURBING ACTIVITIES TO FINAL COMPLETION OF THE PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR)

1. ESTABLISH CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT CONSTRUCTION AREA.
2. CONSTRUCT TEMPORARY SEDIMENT CONTROLS AND PERIMETER EROSION CONTROL MEASURES, INCLUDING SEDIMENT BASINS, TEMPORARY OUTLET STRUCTURE, CONSTRUCTION ENTRANCE, AND SILT FENCE. MEASURES SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS OF FIRST GRUBBING.
3. CLEAR AND GRUB
4. STRIP AND STOCKPILE TOPSOIL. SEED STOCKPILES. PROVIDE PERIMETER SILT FENCE AT TOE OF STOCKPILE SLOPE.
5. PERFORM ROUGH GRADING AND EXCAVATION. STABILIZE AREAS AS INDICATED HEREIN.
6. INSTALL STORM SEWERS, OUTLET STRUCTURE, AND INLET FILTERS.
7. COMPLETE ALL PAVEMENT ACTIVITIES.
8. COMPLETE FINE GRADING OF SEEDED AREAS AND STABILIZE DISTURBED AREAS.
9. ONCE FINAL SEED HAS BEEN ESTABLISHED, CONTRACTOR TO REMOVE TEMPORARY EROSION CONTROL MEASURES AND CLEAN ALL SEDIMENT FROM STRUCTURES AND PAVEMENT. SEDIMENT/WATER QUALITY BASIN SHALL BE CLEANED OF ALL ACCUMULATED SEDIMENT AND RESTORED TO THE ORIGINAL DESIGN CONTOURS SHOWN ON THESE PLANS.
10. PRIOR TO FINISHING WORK, ALL AREAS OF THE SITE DISTURBED BY CONSTRUCTION ACTIVITY (INCLUDING, BUT NOT LIMITED TO MATERIAL STORAGE AREAS, TRAILER AREAS, FUELING AREAS, TRUCK WASH AREAS, EQUIPMENT PATHS, HAUL ROADS, ETC.) SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS, OR IF IN AREAS OF PROPOSED IMPROVEMENTS, TO THEIR PROPOSED CONDITIONS. ALL STONE, TRASH, AND DEBRIS SHALL BE REMOVED FROM THE SOIL. THE UPPER 12" OF SOIL SHALL BE SCARIFIED, AND AREA SHALL BE GRADED TO SUBGRADE WITH SUITABLE MATERIALS. FURNISH 6" MINIMUM OF TOPSOIL AND SEED ALL AREAS.

SCHEDULE:

THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE PLACED IN ACCORDANCE WITH THIS SCHEDULE.

JURISDICTION:

ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF MUNICIPALITY AND/OR THE OHIO EPA.

OEPA NOI:

SUBMITTED, PENDING APPROVAL

RUNOFF COEFFICIENTS:

PRE-DEVELOPED: C = X.XX
POST-DEVELOPED: C = X.XX
PRE-DEVELOPED IMPERVIOUS AREA: XX.XX ACRES
POST-DEVELOPED IMPERVIOUS AREA: XX.XX ACRES

EROSION CONTROL NOTES:

1. ALL EROSION CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO ANY SITE GRADING OPERATIONS. ALL APPLICABLE GOVERNING AGENCIES MUST BE NOTIFIED UPON COMPLETION OF THE INSTALLATION OF THE REQUIRED EROSION FACILITIES AND PRIOR TO ANY GRADING OPERATION BEING COMMENCED. IF DAMAGED OR REMOVED DURING CONSTRUCTION, ALL EROSION CONTROL FACILITIES SHALL BE RESTORED AND IN PLACE AT THE END OF EACH WORK DAY.

2. ANY EROSION CONTROL FACILITIES DEEMED NECESSARY BY THE GOVERNING AGENCIES; BEFORE, DURING OR AFTER THE GRADING ACTIVITIES, SHALL BE INSTALLED AT THEIR REQUEST.

3. FLOWS FROM DIVERSION CHANNELS OR PIPES (TEMPORARY OR PERMANENT) SHALL BE ROUTED TO SEDIMENTATION BASINS OR APPROPRIATE ENERGY DISSIPATERS TO PREVENT TRANSPORT OF SEDIMENT TO OUTFLOW TO LATERAL CONVEYORS AND TO PREVENT EROSION AND SEDIMENTATION WHEN RUNOFF FLOWS INTO THESE CONVEYORS.

4. SITE ACCESS ROADS SHALL BE GRADED OR OTHERWISE PROTECTED WITH SILT FENCES, DIVERSION CHANNELS, OR DIKES AND PIPES TO PREVENT SEDIMENT FROM EXITING THE SITE VIA THE ACCESS ROADS. SITE-ACCESS ROADS/DRIVEWAYS SHALL BE SURFACED WITH CRUSHED ROCK WHERE THEY ADJOIN EXISTING PAVED ROADWAYS.

5. SOILS TRACKED FROM THE SITE BY MOTOR VEHICLES OR EQUIPMENT SHALL BE CLEANED DAILY FROM PAVED ROADWAY SURFACES, OR MORE FREQUENTLY IF REQUESTED BY GOVERNING AGENCIES, THROUGHOUT THE DURATION OF CONSTRUCTION.

6. DUST CONTROL MEASURES SHALL BE PERFORMED PERIODICALLY WHEN CONDITIONS REQUIRE AND/OR AS DIRECTED BY THE GOVERNING AGENCIES.

7. ALL EROSION CONTROL MEASURES SHALL BE USED AND MAINTAINED FOR THE DURATION OF SITE CONSTRUCTION. IF CONSTRUCTION OPERATIONS OR NATURAL EVENTS DAMAGE OR INTERFERE WITH THESE EROSION CONTROL MEASURES, THEY SHALL BE RESTORED TO SERVE THEIR INTENDED FUNCTION AT THE END OF EACH DAY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.

8. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED AS SOON AS POSSIBLE. ANY AREAS WHICH HAVE BEEN FINISHED GRADED SHALL BE SODDED. AREAS THAT HAVE BEEN DISTURBED AND FOR WHICH GRADING OR SITE BUILDING CONSTRUCTION OPERATIONS ARE NOT ACTIVELY UNDERWAY SHALL BE TEMPORARILY SEEDED AND MULCHED AS REQUIRED BY GOVERNING AGENCIES.

9. RUNOFF SHALL BE PREVENTED FROM ENTERING ALL STORM SEWER CATCH BASINS PROVIDING THEY ARE NOT NEEDED DURING CONSTRUCTION. WHERE STORM SEWER CATCH BASINS ARE NECESSARY FOR SITE DRAINAGE DURING CONSTRUCTION, A SILT FENCE OR SEDIMENT PROTECTION DEVICES SHALL BE INSTALLED AND MAINTAINED AROUND ALL CATCH BASINS UNTIL THE TRIBUTARY AREA TO THE CATCH BASIN IS RESTORED.

10. EROSION CONTROL FACILITIES SHALL BE INSTALLED AND MAINTAINED AROUND THE PERIMETER OF ALL LAKES, PONDS, AND WETLANDS, IF ANY WITHIN OR ADJACENT TO THE AREA TO BE GRADED UNTIL THE AREA TRIBUTARY TO THE LAKE, POND, OR WETLAND IS RESTORED.

11. TO MINIMIZE EROSION, ALL 3:1 SLOPES OR GREATER SHALL BE COVERED WITH A TEMPORARY EROSION CONTROL BLANKET OR STAKED SOD.

12. ACCUMULATION OF ALL SEDIMENT OCCURRING IN STORM SEWERS, DITCHES, LAKES, PONDS, WETLANDS SHALL BE REMOVED PRIOR TO, DURING AND AFTER COMPLETION OF GRADING ACTIVITIES, AT NO ADDITIONAL COST TO OWNER.

13. EROSION CONTROL ITEMS AND DEVICES SHALL BE REMOVED ONLY AFTER THE AREA HAS RECEIVED FINAL STABILIZATION.

POST CONSTRUCTION STORM WATER QUALITY MANAGEMENT - DETENTION BASIN NOTES:

THE DETENTION BASIN WILL ACT AS A STORM WATER QUALITY BASIN. THE BASIN WAS SIZED TO TREAT WATER QUALITY VOLUME IN ADDITION TO PROVIDING STORM WATER DETENTION. AN ADDITIONAL 20% OF VOLUME WAS PROVIDED FOR SEDIMENT LOADING. THE WATER QUALITY VOLUME WILL DRAIN THROUGH A SMALL DIAMETER ORIFICE ON THE OUTLET STRUCTURE.

1. GENERAL MAINTENANCE: INSPECT BASIN AND OUTLET STRUCTURE ONCE PER MONTH OR AFTER RAINFALL EVENTS OF 0.5 INCHES OR GREATER. MAINTAIN DOCUMENTATION OF ALL INSPECTIONS AND MAINTENANCE.

2. BASIN MAINTENANCE: EXCAVATE AND DISPOSE SEDIMENT OFF-SITE IN ACCORDANCE WITH LOCAL STANDARDS WHEN BASIN HAS ACCUMULATED 3 INCHES OF SEDIMENT. SEDIMENT SHALL BE REMOVED FROM THE FOREBAY AND MICROPPOOL OF THE BASIN. ONCE SITE HAS BEEN STABILIZED, CLEAN OUT ALL SEDIMENT CONTAINED IN THE FOREBAY AND MICROPPOOL. ALL SEDIMENT REMOVAL THEREAFTER SHALL BE LESS FREQUENT AND SHALL OCCUR WHEN BASIN FUNCTIONALITY HAS DECREASED OR ACCUMULATION HAS EXCEEDED 3 INCHES.

3. OUTLET STRUCTURE MAINTENANCE: REMOVE FLUSHED DEBRIS AND SEDIMENT FROM OUTLET STRUCTURE WITH VACUUM TRUCK MINIMUM OF ONCE EVERY SIX MONTHS OR WHEN SEDIMENT ACCUMULATES TO WITHIN 6 INCHES OF OUTLET, OF IF STANDING WATER PERSISTS FOR MORE THAN 72 HOURS.

POST CONSTRUCTION STORM WATER QUALITY MANAGEMENT - VEGETATED SWALE NOTES:

THE TWO VEGETATED SWALES LOCATED TO THE NORTH AND SOUTH OF THE PROPOSED BUILDING WILL ACT AS A STORM WATER QUALITY TREATMENT DEVICE. ONLY A MINIMUM AMOUNT OF MAINTENANCE SHOULD BE NECESSARY TO ENSURE CONTINUED FUNCTIONING OF VEGETATED SWALES.

1. GENERAL MAINTENANCE: INSPECT VEGETATED SWALES ANNUALLY FOR FORMATION OF RILLS OR GULLIES AND FOR ANY DAMAGED SECTION OF VEGETATION. IF RILLS OR GULLIES OCCUR, THEY MUST BE REPAIRED AND STABILIZED WITH SEED OR SOD.

PROVIDE REPAIR AND STABILIZATION TO DAMAGED AREAS OF VEGETATION.

POST CONSTRUCTION STORM WATER QUALITY MANAGEMENT - RAIN GARDEN NOTES:

THE RAIN GARDEN SYSTEM WILL ACT AS A STORM WATER QUALITY AND QUANTITY BASIN. THE RAIN GARDEN WAS SIZED TO TREAT THE DIRECT RUNOFF FROM THE ROOF OF THE PROPOSED BUILDING.

1. GENERAL MAINTENANCE: WEEDING WILL BE NEEDED THE FIRST COUPLE OF YEARS. REMOVE BY HAND ONLY. AFTER EACH GROWING SEASON, THE STEMS AND SEEDHEADS CAN BE LEFT FOR WINTER INTEREST, WILDLIFE COVER, AND BIRD FOOD. ONCE SPRING ARRIVES AND NEW GROWTH IS 4-6 INCHES TALL, CUT ALL TATTERED PLANTS BACK. DEAD PLANT MATERIAL CAN ALSO BE REMOVED AND DISPOSED OF ACCORDING TO CITY STANDARDS.

2. PLANTING SOIL MAINTENANCE: OVER TIME (3-10 YEARS), CLOGGING OF THE PLANTING SOIL OR FILTER LAYER WITH FINE PARTICLES MAY OCCUR. THIS IS EXPECTED AND CAN BE CORRECTED BY REPLACING A PORTION OF THE PLANTING SOIL OR REPLACING ALL THE PLANTING SOIL AND THE FILTER LAYER UNTIL BETTER PERMEABILITY IS ACHIEVED.

3. REFER TO THE OHIO DIVISION OF NATURAL RESOURCES "RAINWATER AND LAND DEVELOPMENT MANUAL" TABLE 2.10.2 FOR ADDITIONAL SUGGESTIVE MAINTENANCE ACTIVITIES.

SEDIMENT AND EROSION CONTROL NOTES:

MAINTENANCE & INSPECTION PROCEDURES:
ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SEDIMENTATION AND EROSION CONTROL FEATURES ON THIS PROJECT. ANY SEDIMENT OR DEBRIS WHICH REDUCES THE EFFICIENCY OF A CONTROL FEATURE SHALL BE REMOVED IMMEDIATELY. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER AND IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.

TEMPORARY SEEDING AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION, AND A WRITTEN LOG MUST BE KEPT. THIS LOG SHALL INDICATE THE DATE OF THE INSPECTION, NAME OF THE INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ANY CORRECTIVE ACTIONS TAKEN, AND BE SIGNED IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES PERMIT. ANY CONTROL MEASURE MUST BE REPAIRED/REPLACED WITHIN THREE DAYS OF INSPECTION.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL BE TRAINED IN ALL INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER. A WRITTEN DOCUMENT CONTAINING THE SIGNATURES OF ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE MAINTAINED AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE PLAN. THE DOCUMENT SHALL BE CREATED BY THE CONTRACTOR SIGNED PRIOR TO THE START OF CONSTRUCTION.

DISPOSAL OF SOLID/SANITARY/TOXIC WASTE:
SOLID, SANITARY, AND TOXIC WASTE MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS

IT IS PROHIBITED TO BURN, BURY, OR POUR OUT ONTO THE GROUND OR INTO A STORM SEWER WATER CONVEYANCE ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS, AND OTHER SUCH SOLID AND HAZARDOUS WASTES.

ANY RINSE WATERS OF SUCH MATERIAL ARE ALSO PROHIBITED FROM BEING PLACED WHERE THEY MAY ENTER DRAINAGEWAYS.

WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN A DIKED, DESIGNATED AREA, AWAY FROM ANY CONVEYANCE CHANNEL.

COORDINATE WASH OUT AREA WITH CONSTRUCTION MANAGER.

CONTRACTORS RESPONSIBILITIES:
THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.

DETAILS HAVE BEEN PROVIDED ON THE PLANS IN AN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENTATION CONTROL. THE DETAILS SHOWN ON THE PLAN SHALL BE CONSIDERED A MINIMUM. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE ODNR MANUAL "RAINWATER AND LAND DEVELOPMENT". THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION AND SEDIMENT RUNOFF FROM THE SITE ALONG WITH PROPER MAINTENANCE AND INSPECTION IN COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORM DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. THE SCHEDULE SHOULD INCLUDE A SEQUENCE OF THE PLACEMENT OF THE SEDIMENTATION AND EROSION CONTROL MEASURES THAT PROVIDES FOR CONTINUAL PROTECTION OF THE SITE THROUGHOUT EARTH MOVING ACTIVITIES.

PRIOR TO CONSTRUCTION OPERATIONS IN A PARTICULAR AREA, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE. FIELD ADJUSTMENTS WITH RESPECT TO LOCATIONS AND DIMENSIONS MAY BE MADE BY THE ENGINEER AND/OR THE OHIO EPA.

THE CONTRACTOR SHALL PLACE INLET PROTECTION FOR THE SEDIMENTATION CONTROL IMMEDIATELY AFTER CONSTRUCTION OF THE CATCH BASINS OR INLETS WHICH ARE NOT TRIBUTARY TO A SEDIMENT BASIN OR DAM.

IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF SEDIMENTATION CONTROLS DURING CONSTRUCTION TO FACILITATE THE GRADING OPERATIONS IN CERTAIN AREAS. HOWEVER, THE CONTROLS SHALL BE REPLACED UPON GRADING OR DURING ANY INCLEMENT WEATHER.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFFSITE TRACKING OF

SEDIMENTS BY VEHICLES AND EQUIPMENT IS MINIMIZED. ALL SUCH OFFSITE SEDIMENT SHALL BE CLEANED UP DAILY.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT NO SOLID OR LIQUID WASTE IS DISCHARGED INTO STORM WATER RUNOFF. UNTREATED SEDIMENT-LADEN RUNOFF SHALL NOT FLOW OFFSITE WITHOUT BEING DIRECTED THROUGH A CONTROL PRACTICE.

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE INTO OR ALONG SIDE RIVERS, STREAMS, CREEKS, NATURAL OR MAN-MADE CHANNELS OR SWALES LEADING THERETO. CONCRETE WASH WATER AND SURPLUS CONCRETE SHALL BE CONFINED TO APPROVED AREAS. AFTER SOLIDIFYING THESE WASTED MATERIALS SHALL BE REMOVED FROM THE SITE.

POST FLOOD EVENT SITE MAINTENANCE:

FOLLOWING A FLOOD EVENT, INSPECT ALL MECHANICAL EQUIPMENT THAT ARE LOCATED ON THE SITE FOR ANY DAMAGES. WALLS AND WALL PENETRATIONS SHALL ALSO BE CHECKED FOR CRACKS AND LEAKS AND REPAIRED AS NECESSARY. ALL DEBRIS THAT MAY HAVE ACCUMULATED ALONG THE SITE SHALL BE GATHERED AND DISPOSED OF ACCORDING TO CITY STANDARDS. CHECK AND ENSURE THAT ALL DRAINAGE STRUCTURES ARE IN STANDARD OPERATION AND REPAIR ANY DAMAGES OR CLOGS THAT MAY HAVE OCCURRED DURING FLOODING.

STABILIZATION PROCEDURES

CONTRACTOR SHALL BE RESPONSIBLE TO KEEP A RECORD OF DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN EARTH DISTURBANCE HAS TEMPORARILY OR PERMANENTLY CEASED ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES HAVE BEEN INITIATED. THE LIMITS OF SEEDING AND MULCHING ARE AS SHOWN WITHIN THE PLAN AS INDICATED BY THE LIMITS OF DISTURBANCE. ALL AREAS NOT DESIGNATED TO BE SEEDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

TEMPORARY STABILIZATION
TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY CEASES FOR AT LEAST 14 DAYS WILL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. DISTURBED AREAS WITHIN 50 FEET OF A STREAM, FIRST ORDER OR LARGER, SHALL BE STABILIZED WITHIN 2 DAYS OF INACTIVITY. TEMPORARY STABILIZATION MUST BE APPLIED TO ANY AREA OF THE SITE WHICH WILL REMAIN IDLE OVER THE WINTER. THE TEMPORARY SEED SHALL BE RYE (GRASS) APPLIED AT A RATE OF 25 LBS PER 1000 SY. PRIOR TO SEEDING, 900 LBS OF GROUND AGRICULTURAL LIMESTONE AND 200 LBS OF 10-20-20 FERTILIZER SHALL BE APPLIED TO EVERY 1000 SY STABILIZED. IMMEDIATELY AFTER ANY GIVEN AREA IS SEEDED, STRAW OR HAY SHALL BE EVENLY PLACED OVER ALL SEEDED AREAS. TWO TONS PER ACRE FOR STRAW, OR 3 TONS PER ACRE FOR HAY SHALL BE PLACED WHEN SEEDING IS PREFORMED BETWEEN THE DATES OF MARCH 15 AND OCTOBER 15. THREE TONS PER ACRE STRAW, OR 4.5 TONS PER ACRE FOR HAY, SHALL BE PLACED WHEN SEEDING IS PREFORMED BETWEEN THE DATES OF OCTOBER 15 AND MARCH 15 OF THE SUCCEEDING YEAR. IF DORMANT SEEDING IS BEING USED FOR STABILIZATION, SEED SHALL BE PLANTED AFTER NOVEMBER 20. AREAS TO BE PAVED SHALL BE TEMPORARILY STABILIZED BY APPLYING STONE BASE UNTIL BITUMINOUS PAVEMENT CAN BE APPLIED.

IN ADDITION TO TEMPORARY SEEDING, THE CONTRACTOR SHALL PLACE A FILTER FABRIC BARRIER AROUND THE BASE OF ALL SOIL STOCKPILES.

TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION

TIME FRAME TO APPLY EROSION CONTROLS

ANY DISTURBED AREA WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE

WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS

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. FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).

DISTURBED AREAS THAT WILL BE IDLE OVER WINTER

PRIOR TO THE ONSET OF WINTER WEATHER

PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION

TIME FRAME TO APPLY EROSION CONTROLS

ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE

WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE

AN AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE

WITHIN TWO DAYS OF REACHING FINAL GRADE

OTHER AREAS AT FINAL GRADE

WITHIN SEVEN DAYS OF REACHING FINAL GRADE IN THAT AREA

EASEMENT REFERENCE

CITY NO.

COUNTY RECORDER

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PAGE

GRANTOR

NO.

DESCRIPTION

APPROVAL/DATE

NO.

DESCRIPTION

APPROVAL/DATE

NO.

DESCRIPTION

APPROVAL/DATE

PLAN PREPARED BY:

AMERICAN
STRUCTUREPOINT
INC.

EROSION CONTROL NOTES

PROJECT TITLE:
PRIVATE STORM SEWER, GRADING AND DETENTION AREAS
FOR
INNIS APARTMENTS
2150 INNIS ROAD
COLUMBUS, FRANKLIN COUNTY, OHIO

DIVISION USE ONLY

OWNER

CONTRACTOR

INSPECTOR

AGREEMENT

COMPLETED

RPD

CKD

CID

CON.DR.

INDEX
DETAIL

RECORD
FILE

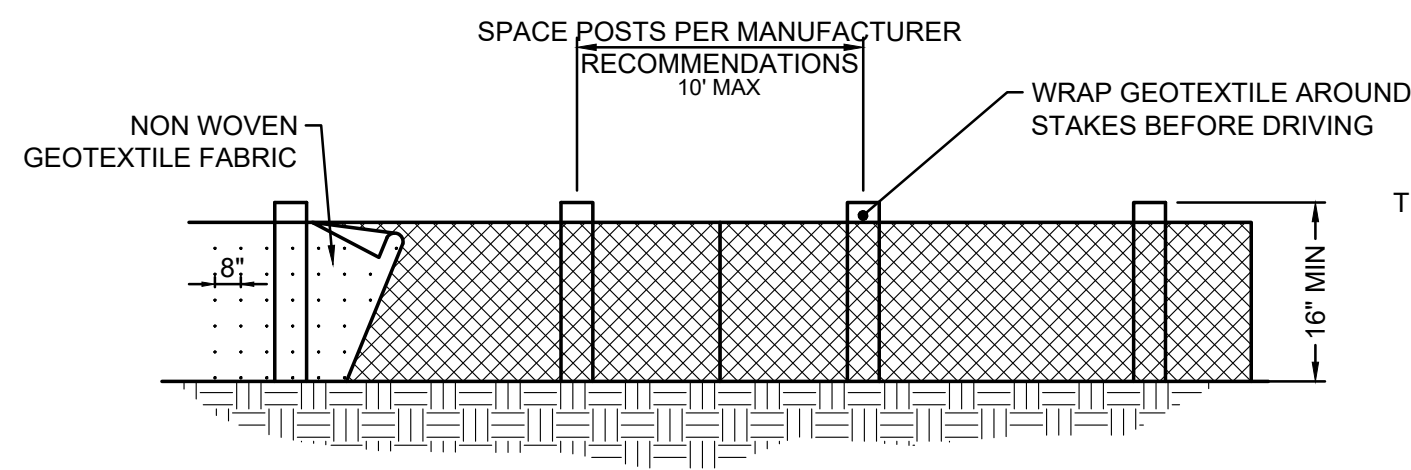
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RECORD PLAN NO.

PLOT SCALE: 1:1 EDIT DATE: 5/20/26 - 3:45 PM EDITED BY: BRYDEN DRAWING FILE: \COLUMBUS\PROJECTS\2022\03292.D DRAWING\SC\1\CONSTRUCTION DOCUMENTS\CC STORM\2022_03292.ECP.DWG



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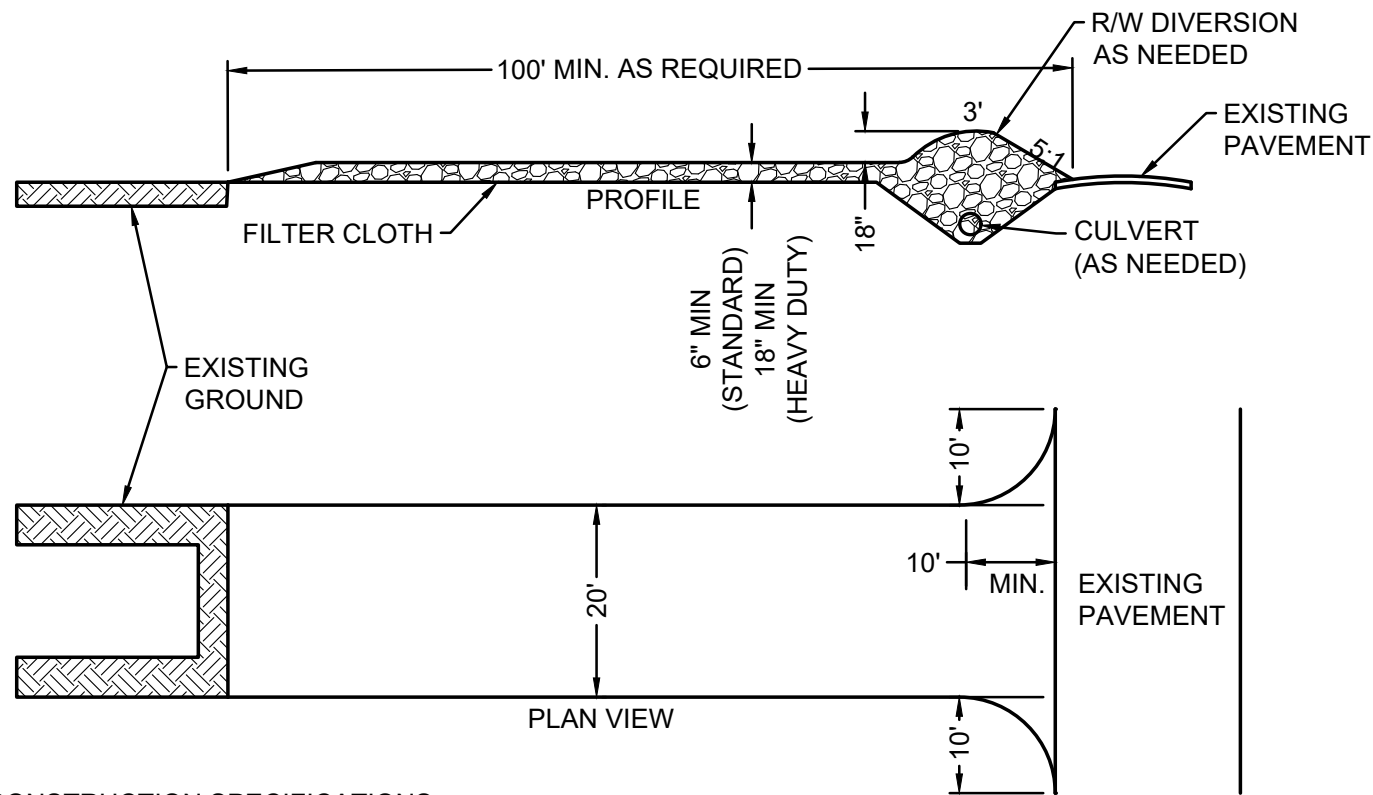
- FENCE POST SHALL BE A MINIMUM LENGTH OF 32 INCHES LONG PLUS BURIAL DEPTH, COMPOSED OF NOMINAL DIMENSIONED 2x2 INCH HARDWOOD OF SOUND QUALITY. ALTERNATELY POST MATERIAL SHALL BE STEEL OR SYNTHETIC AND SHALL BE OF SUFFICIENT STRENGTH TO RESIST DAMAGE DURING INSTALLATION, TO SUPPORT APPLIED LOADS, AND SO THE GEOTEXTILE CAN BE ADEQUATELY SECURED TO POST
- FABRIC SHALL BE A NEEDLE PUNCHED NON-WOVEN GEOTEXTILE FABRIC CONSISTING OF STRONG, ROT RESISTANT, MATERIALS RESISTANT TO DETERIORATION FROM ULTRAVIOLET AND HEAT EXPOSURE.
- MINIMUM 8" FABRIC BURY REQUIRED.
- ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY HALF THE HEIGHT OF THE SILT FENCE.

MINIMUM CRITERIA FOR SILT FENCE FABRIC (ODOT, 2002)		
MINIMUM TENSILE STRENGTH	120 lbs (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 lbs (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 lbs (180 N)	ASTM D 4533
APPARENT OPENING SIZE	≤ 0.84 mm	ASTM D 4751
MINIMUM PERMITIVITY	1x10 ⁻² sec. ⁻¹	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM D 4355

NOTE:

THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE. STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER NOW (OEPA).

ADDITIONALLY:
THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES.



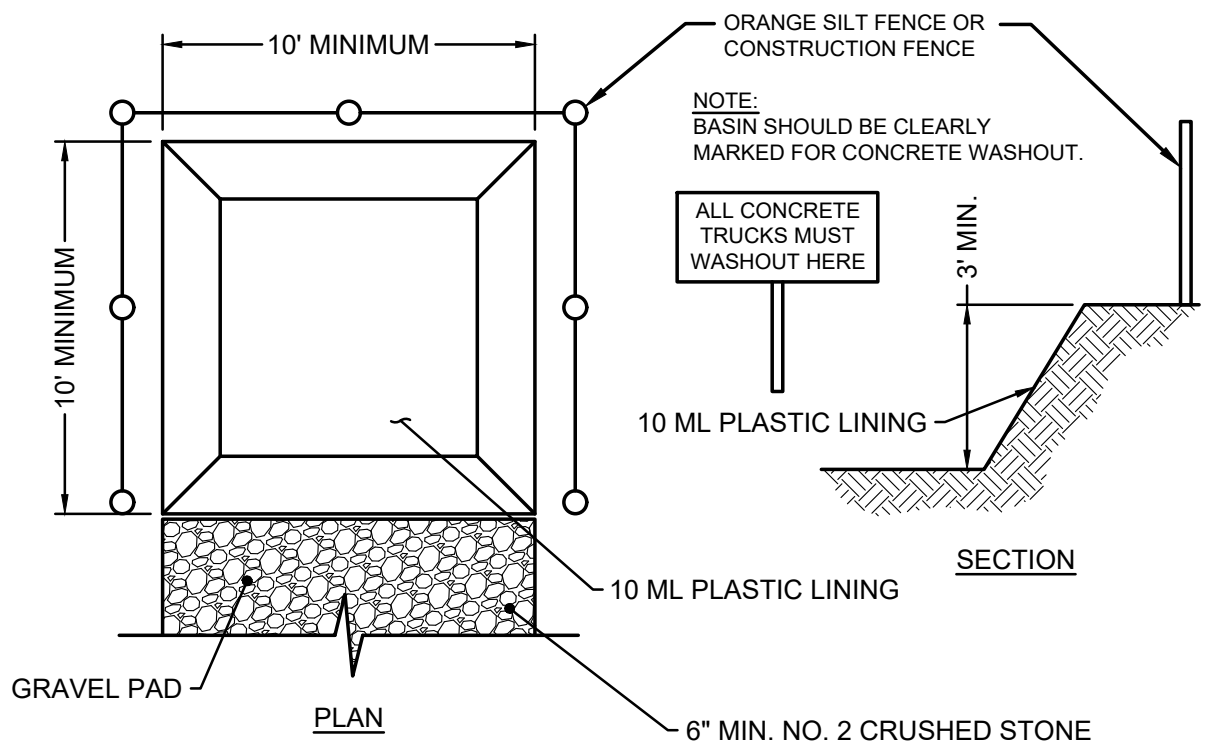
CONSTRUCTION SPECIFICATIONS:

- STONE SIZE—ODOT # 2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH—THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
- THICKNESS -THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
- WIDTH -THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS
- GEOTEXTILE -A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 lbs
MINIMUM PUNCTURE STRENGTH	80 psi
MINIMUM TEAR STRENGTH	50 lbs
MINIMUM BURST STRENGTH	320 psi
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS<0.6 mm
PERMITIVITY	1x10 ⁻³ cm/sec

- TIMING—THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- CULVERT -A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR -A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR PREVENT FLOWING SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- REMOVAL—THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

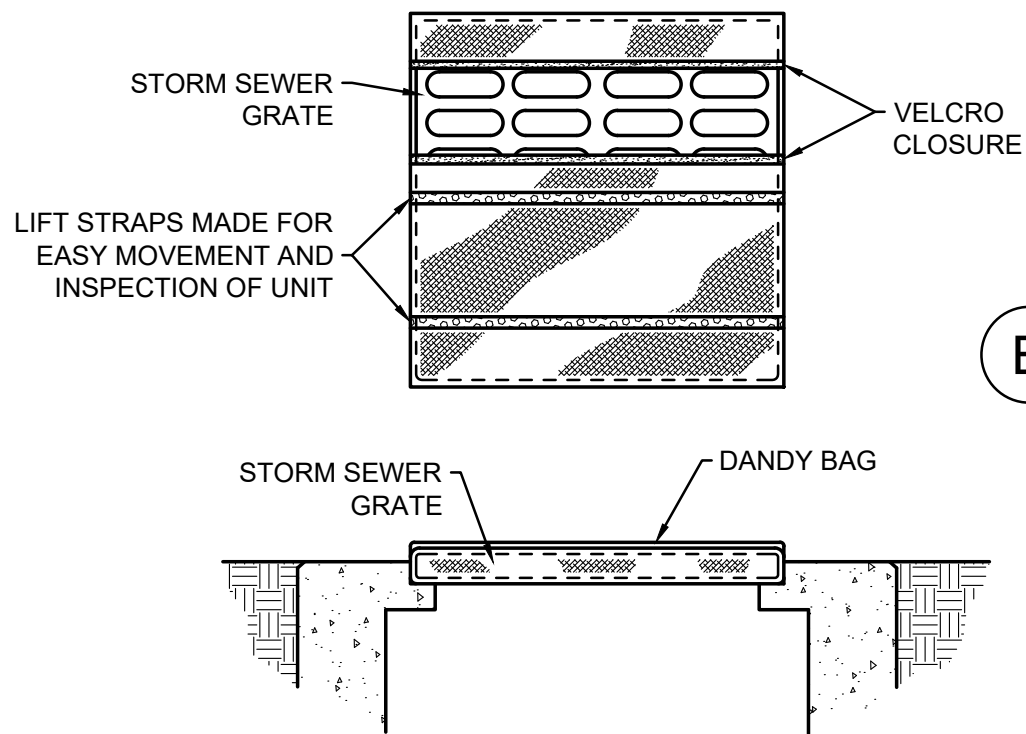
A SILT FENCE
NOT TO SCALE



NOTE:

- CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 100' FROM STORM SEWER INLETS, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS.
- IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO A CONSTRUCTION ENTRANCE.
- CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. LARGE SITES MAY REQUIRE MULTIPLE CONCRETE WASHOUT AREAS.
- PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-ML POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF LARGE ROCKS AND DEBRIS.
- CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
- CONCRETE WASHOUT AREA SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOW.
- PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE.
- CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR PLASTIC LINING SHALL BE REPAIRED IMMEDIATELY. REPLACE THE ENTIRE CONCRETE WASHOUT AREA WHEN IT IS 75% FULL.
- THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS.
- STRAW BALES ARE NOT PERMITTED WITHIN THE CONCRETE WASHOUT AREA.
- THE EXACT LOCATION OF THE CONCRETE WASHOUT(S) MAY BE FIELD LOCATED BY THE ON-SITE PROJECT ENGINEER/ CONTACT.

C CONCRETE WASHOUT AREA
NOT TO SCALE



INSTALLATION:

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

MAINTENANCE:

AFTER EACH STORM EVENT AND SILT HAS DRIED, REMOVE ACCUMULATED DEBRIS FROM THE SURFACE OF DANDY BAG WITH BROOM.

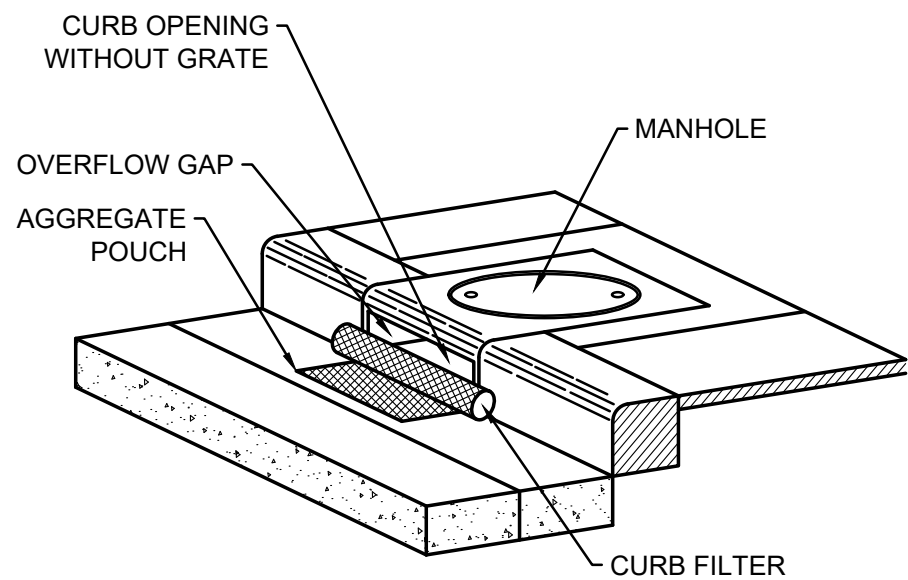
D DANDY BAG INLET PROTECTION
NOT TO SCALE

B CONSTRUCTION ENTRANCE
NOT TO SCALE

NOTE:

PROVIDE FOR INLETS LOCATED IN PAVEMENT

DANDY BAG WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS	
GRAB TENSILE STRENGTH	ASTM D 4632
GRAB TENSILE ELONGATION	ASTM D 4632
PUNCTURE STRENGTH	ASTM D 4833
MULLEN BURST STRENGTH	ASTM D 3786
TRAPEZOID TEAR STRENGTH	ASTM D 4533
UV RESISTANCE	ASTM D 4355
APPARENT OPENING SIZE	ASTM D 4751
FLOW RATE	ASTM D 4491
PERMITIVITY	ASTM D 4491



INSTALLATION:

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

MAINTENANCE:

- WITH A STIFF BRISTLE BROOM, SWEEP SILT AND OTHER DEBRIS OFF SURFACE AFTER EACH STORM EVENT.

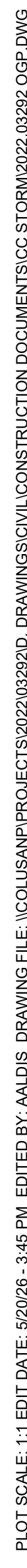
E BEAVER DAM INLET PROTECTION
NOT TO SCALE

DANDY BAG WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS	
GRAB TENSILE STRENGTH	ASTM D 4632
GRAB TENSILE ELONGATION	ASTM D 4632
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UV RESISTANCE	ASTM D 4355
APPARENT OPENING SIZE	ASTM D 4751
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PERMITIVITY	ASTM D 4491

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE				

EROSION CONTROL DETAILS

PROJECT TITLE: PRIVATE STORM SEWER, GRADING AND DETENTION AREAS FOR INNIS APARTMENTS 2150 INNIS ROAD COLUMBUS, FRANKLIN COUNTY, OHIO						CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER RECLAMATION DIVISION USE ONLY									
DIVISION USE ONLY				OWNER		SCALE: N/A						SHEET 6 / 21			
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				INSPECTOR											
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				RPD	CKD	CID	CON.DR.								
				INDEX DETAIL		RECORD FILE									



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	VOL.	PAGE						CONTRACTOR					INSPECTOR								
								AGREEMENT					COMPLETED					CONTRACT DRAWING NO. CC-XXXXX		RECORD PLAN NO.	
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	VOL.	PAGE										
GRADING & UTILITY PLAN												

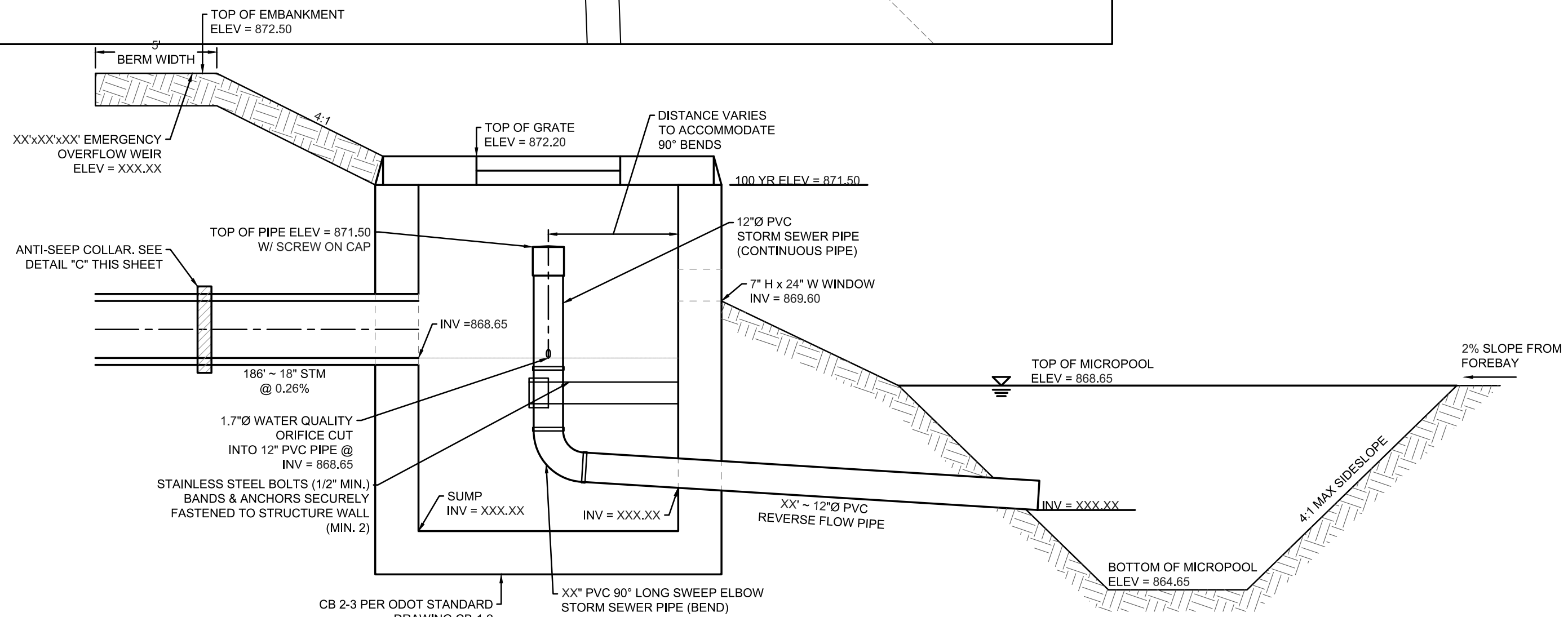
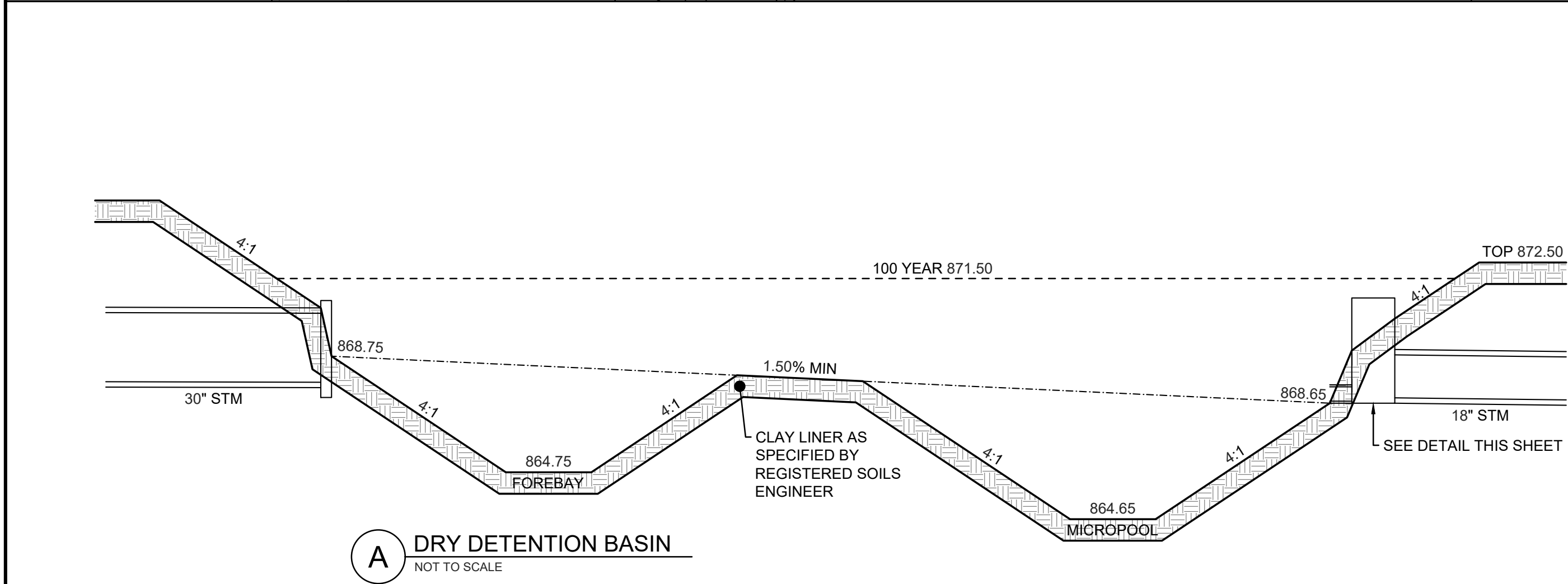
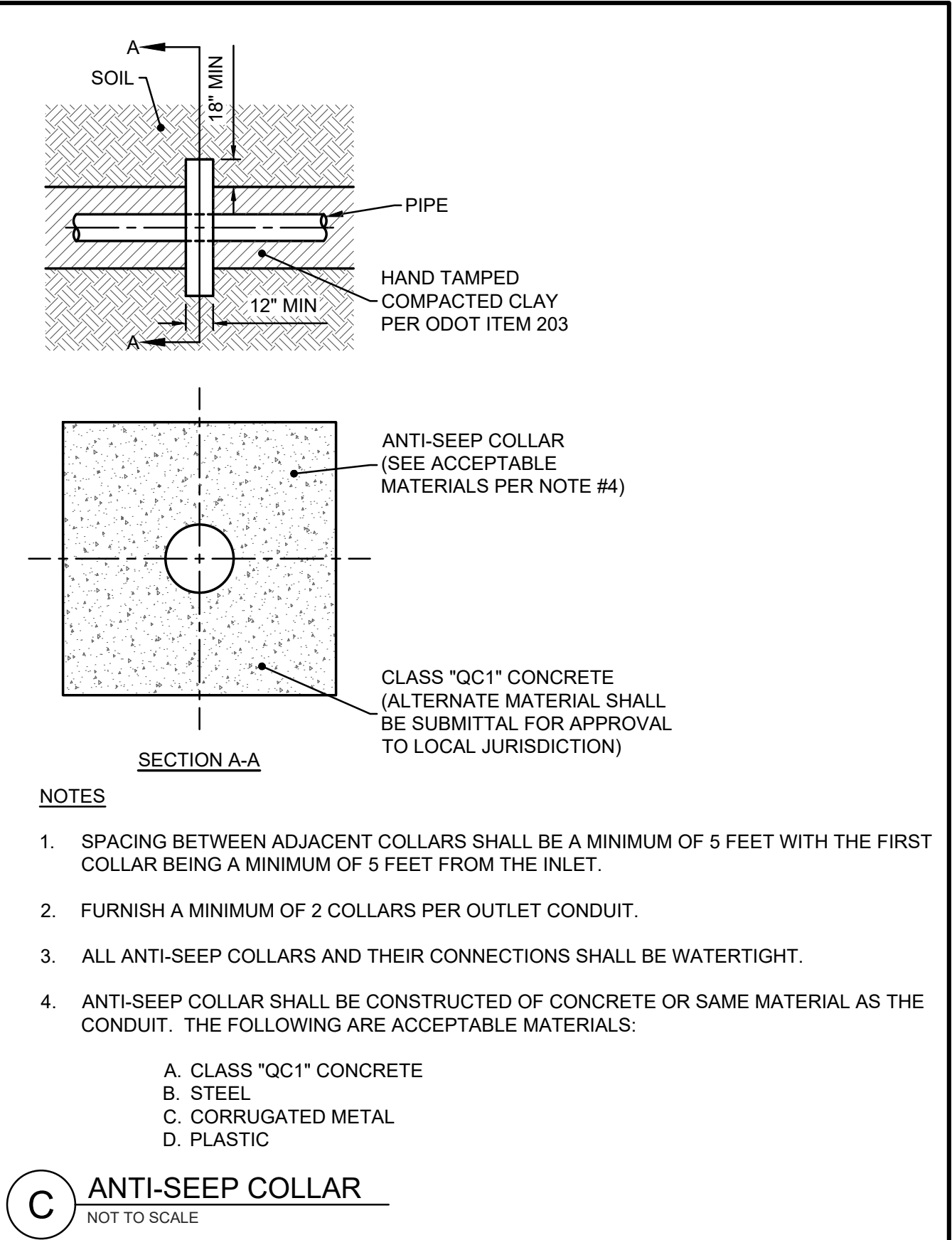
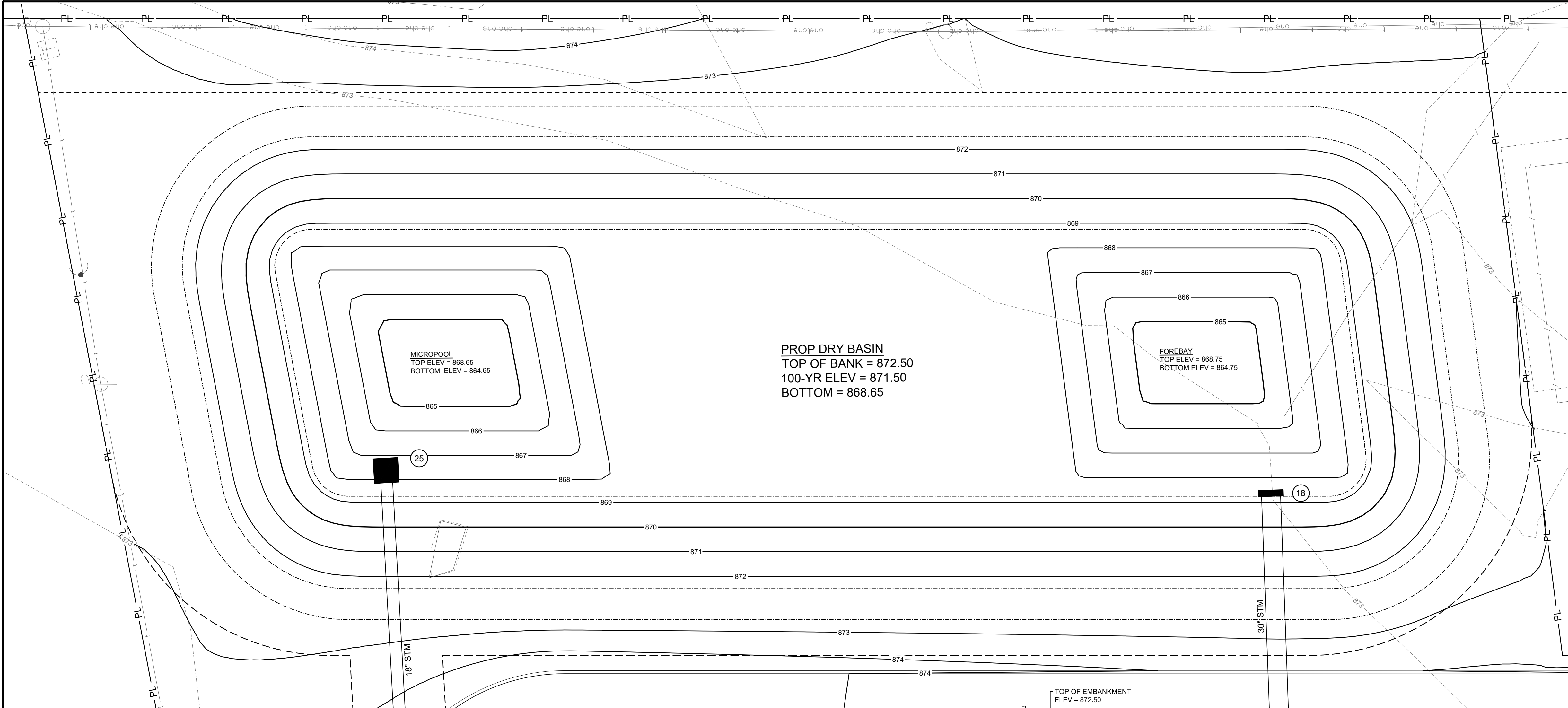
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				INSPECTOR				CONTRACT DRAWING NO. CC-XXXXX		RECORD PLAN NO.
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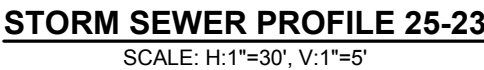
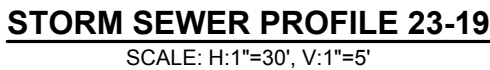
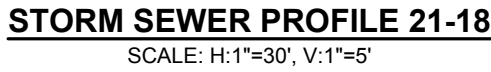
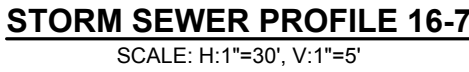
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GRADING DETAILS

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1. PROFILE VERTICAL DATUM NAVD'88.
2. ALL STORM STRUCTURES ARE COC STANDARD STRUCTURES UNLESS OTHERWISE NOTED.
3. MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE FROM WATERLINES.
4. ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE EXISTING GROUND UNLESS OTHERWISE NOTED:
 - * COMPACTED BACKFILL PER COC CMS ITEM 911
 - ** COMPACTED GRANULAR BACKFILL PER COC CMS ITEM 912
5. ALL FILLS ARE TO BE PLACED A MINIMUM OF 2.5' ABOVE THE PROPOSED STORM SEWER PER ODOT CMS ITEM 203 PRIOR TO THE START OF STORM SEWER CONSTRUCTION. HATCH BELOW FOR REFERENCE.


6. ALL STORM STRUCTURES WITHIN PAVEMENT LIMITS SHALL HAVE HEAVY DUTY TRAFFIC RATED GRATES.
7. PIPE RUNS DENOTED WITH A (++) ARE TO HAVE SANITARY GRADE JOINTS WITH GASKETS PER COC CMS 901.15.
8. NORTHING AND EASTING OF CURB AND GUTTER INLETS ARE IN REFERENCE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
9. T.C. (TOP OF CASTING) ELEVATION AND LOCATION FOR ALL CURB AND GUTTER INLETS IS IN REFERENCE TO THE BACK OF CURB ELEVATION.



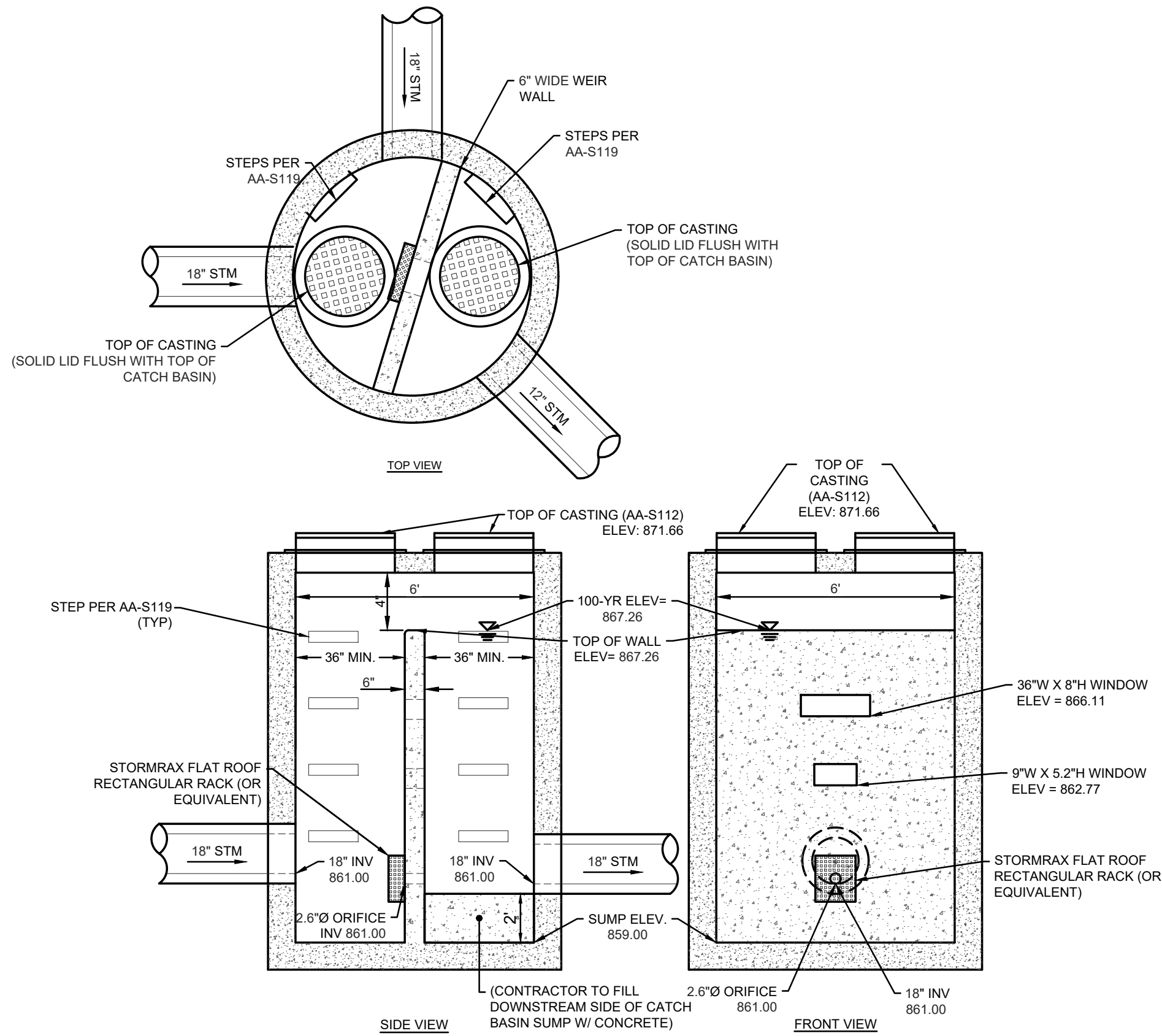
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 AMERICAN
STRUCTUREPOINT
INC.

STORM PROFILES

PROJECT TITLE: PRIVATE STORM SEWER, GRADING AND DETENTION AREAS FOR INNIS APARTMENTS 2150 INNIS ROAD COLUMBUS, FRANKLIN COUNTY, OHIO						CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER RECLAMATION							
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A OUTLET STRUCTURE DETAIL - MODIFIED AA-S102 MH - STRUCTURE (2)
NOT TO SCALE

STORM SEWER STRUCTURE TABLE								
STR. NO	STRUCTURE TYPE	TOP OF CASTING	INVERTS	NORTHING	EASTING	AS-BUILT TOP OF CASTING	AS-BUILT NORTHING	AS-BUILT NORTHING
1	AA-S102 W/ AA-S112 LID	871.63	18" INV (N): 860.73 18" INV (S) 860.73	742421.06	1840468.63			
2	AA-102 W/ AA-S112 LID (OUTLET STRUCTURE)	871.66	18" INV (S) 861.00	742488.47	1840463.70			
3	4'X4' AA-S133B W/ AA-S141 LID	871.20	36" INV (W): 861.00	742499.48	1840419.64			
4	4'X4' AA-S133B W/ AA-S141 LID	871.01	36" INV (N): 861.02 36" INV (E) 861.02	742503.97	1840401.66			
5	4'X4' AA-S133B W/ AA-S141 LID	869.73	36" INV (N): 861.08 36" INV (S) 861.10	742578.50	1840420.86			
6	4'X4' AA-S133B W/ AA-S141 LID	870.44	36" INV (W): 861.20 36" INV (S) 861.20	742678.28	1840446.57			
7	4'X4' AA-S133B W/ AA-S141 LID	869.27	30" INV (W): 861.83 36" INV (E) 861.33	742707.57	1840332.92			
8	3'X3' AA-S133B W/ AA-S141	869.51	24" INV (N): 862.46 12" INV (S): 865.39 30" INV (E) 861.96	742720.14	1840284.14			
9	AA-S133A W/ AA-S141	869.51	18" INV (NE): 864.99 15" INV (E): 865.23 24" INV (S) 864.55	742922.53	1840336.23			
10	AA-S133A W/ AA-S141	872.76	15" INV (E): 866.62 18" INV (SW) 866.35	743044.89	1840395.68			
11	AA-S133A W/ AA-S141	872.36	15" INV (E): 867.63 15" INV (W) 867.62	743035.11	1840520.52			
12	AA-S133A W/ AA-S141	870.70	12" INV (N): 868.13 15" INV (W) 867.88	743015.69	1840595.89			
13	AA-S133A W/ AA-S141	872.60	12" INV (S) 869.99	743222.92	1840649.30			
14	3'X3' AA-S133B W/ AA-S141	872.28	15" INV (S): 865.81 15" INV (W) 865.80	742879.08	1840504.88			
15	AA-S133A W/ AA-S141	870.75	12" INV (E): 866.26 15" INV (N) 866.00	742820.98	1840489.91			
16	AA-S133A W/ AA-S141	871.14	12" INV (W) 866.51	742806.30	1840546.87			
17	AA-S133A W/ AA-S141	869.51	12" INV (N) 866.38	742502.15	1840228.03			
18	AA-S169	870.30	30" INV (W): 867.50	743506.65	1840682.11			
19	AA-S133A W/ AA-S141 LID	873.29	18" INV (W): 868.55 18" INV (S): 868.35 30" INV (E) 867.55	743514.95	1840644.17			
20	AA-S133A W/ AA-S141 LID	873.38	15" INV (S): 869.21 18" INV (E) 868.96	743554.11	1840492.21			
21	AA-S133A W/ AA-S141 LID	873.61	15" INV (N) 869.98	743328.45	1840434.06			
22	AA-S133A W/ AA-S141 LID	874.95	15" INV (S): 868.99 18" INV (N) 868.79	743353.48	1840602.56			
23	AA-S133A W/ AA-S141 LID	872.08	15" INV (N) 869.37	743242.34	1840573.92			
24	AA-S102 W/ AA-S112 LID	874.34	18" INV (E): 868.17 24" INV (SW): 867.97 24" INV (NE) 867.97	743681.04	1840539.54			
25	AA-S102 W/ AA-S112 LID	872.20	18" INV (W) 868.65	743644.62	1840721.94			

PIPE DATA TABLE (OHIO SOUTH ZONE-HORIZ REF DATUM EQUALS NAD83 2011 ADJUSTMENT)					
START STRUCTURE	END STRUCTURE	LENGTH	BEARING	AS-BUILT LENGTH	AS-BUILT BEARING
25	24	186	N78° 42' 39.12"W		
24		32	N63° 55' 54.65"E		
23	22	115	N14° 27' 00.57"E		
22	19	167	N14° 27' 00.57"E		
21	20	233	N14° 27' 00.00"E		
20	19	157	S75° 32' 59.95"E		
19	18	39	S77° 39' 38.05"E		
17	8	225	N14° 26' 03.99"E		
16	15	59	N75° 33' 00.28"W		
15	14	60	N14° 26' 59.77"E		
14	9	174	N75° 33' 07.36"W		
13	12	214	S14° 27' 00.00"W		
12	11	78	N75° 33' 00.00"W		
11	10	125	N85° 31' 26.38"W		
10	9	136	S25° 54' 46.57"W		
9	8	209	S14° 26' 03.99"W		
8	7	50	S75° 33' 00.00"E		
7	6	117	S75° 33' 00.00"E		
6	5	103	S14° 27' 00.00"W		
5	4	77	S14° 27' 00.00"W		
4	3	19	S75° 58' 18.17"E		
2	1	68	S04° 10' 55.60"E		
1		76	S07° 09' 26.87"W		
	24	57	N63° 58' 05.10"E		

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PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	ANDREA TAGLIONE 614-981-2815 ANDREA.TAGLIONE@ADSPIPE.COM
ADS SALES REP:	JOHN MCGEORGE 614-578-1561 JOHN.MCGEORGE@ADSPIPE.COM
PROJECT NO:	S521298



INNIS APARTMENTS

COLUMBUS, OH

MC-7200 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-7200.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-7200 CHAMBER SYSTEM

- STORMTECH MC-7200 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE MC-7200 CHAMBER".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
- STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

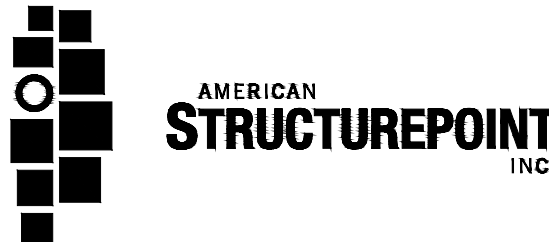
NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE MC-7200 CHAMBER".
- THE USE OF EQUIPMENT OVER MC-7200 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE MC-7200 CHAMBER".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH INSTALLATION GUIDE MC-7200 CHAMBER".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

ADDITIONAL INSTRUCTIONS OR FOR SITE SPECIFIC DEVIATIONS FROM THESE GUIDELINE CAN BE OBTAINED DIRECTLY FROM YOUR LOCAL ADS REPRESENTATIVE OR BY LOGGING ON TO WWW.ADSPICE.COM.

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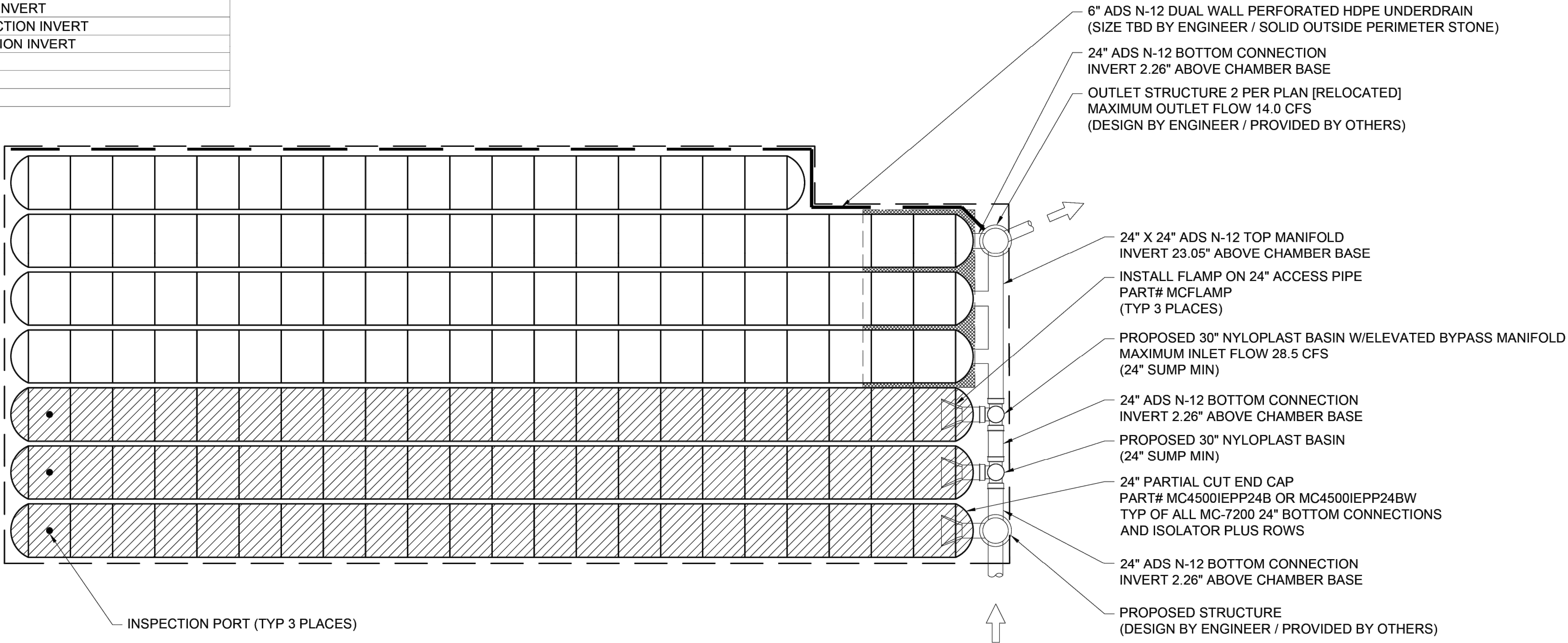
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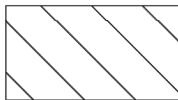
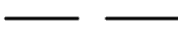
PROPOSED LAYOUT	
150	STORMTECH MC-7200 CHAMBERS
14	STORMTECH MC-7200 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
43,177	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
19,035	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) BELOW ELEVATION 863.67
7.2	INSTALLED SYSTEM WATER QUALITY FLOW RATE (CFS)
10005	SYSTEM AREA (ft²)
445	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS	
873.75	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
869.25	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
868.75	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
868.75	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
868.75	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
867.75	TOP OF STONE
866.75	TOP OF MC-7200 CHAMBER
863.67	24" TOP MANIFOLD/CONNECTION INVERT
861.94	24" ISOLATOR ROW PLUS CONNECTION INVERT
861.94	24" BOTTOM MANIFOLD/CONNECTION INVERT
861.75	BOTTOM OF MC-7200 CHAMBER
861.00	UNDERDRAIN INVERT
861.00	BOTTOM OF STONE

NOTES

- STRUCTURES SHOWN ON THIS DESIGN ARE NOT INTENDED FOR MANWAY ACCESS. INSPECTION AND MAINTENANCE OF THE SYSTEM VIA THESE STRUCTURES IS RECOMMENDED TO BE COMPLETED WITH REMOTE CONTROLLED EQUIPMENT, OR ADHERE TO GUIDANCE BY PROFESSIONAL MAINTENANCE COMPANY.
- NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.



-  ISOLATOR ROW PLUS (SEE DETAIL)
-  PLACE MINIMUM 17.5' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS
-  BED LIMITS

INNIS APARTMENTS

COLUMBUS, OH

DATE: 04/15/26

DRAWN: HAK

CHECKED: XXX

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UNDERGROUND DETENTION DETAILS

PROJECT TITLE:
PRIVATE STORM SEWER, GRADING AND DETENTION AREAS
FOR
INNIS APARTMENTS
2150 INNIS ROAD
COLUMBUS, FRANKLIN COUNTY, OHIO

DIVISION USE ONLY				OWNER			
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				INSPECTOR			
				AGREEMENT		COMPLETED	
				RPD	CKD	CID	CON.DR.
				INDEX DETAIL		RECORD FILE	

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER RECLAMATION

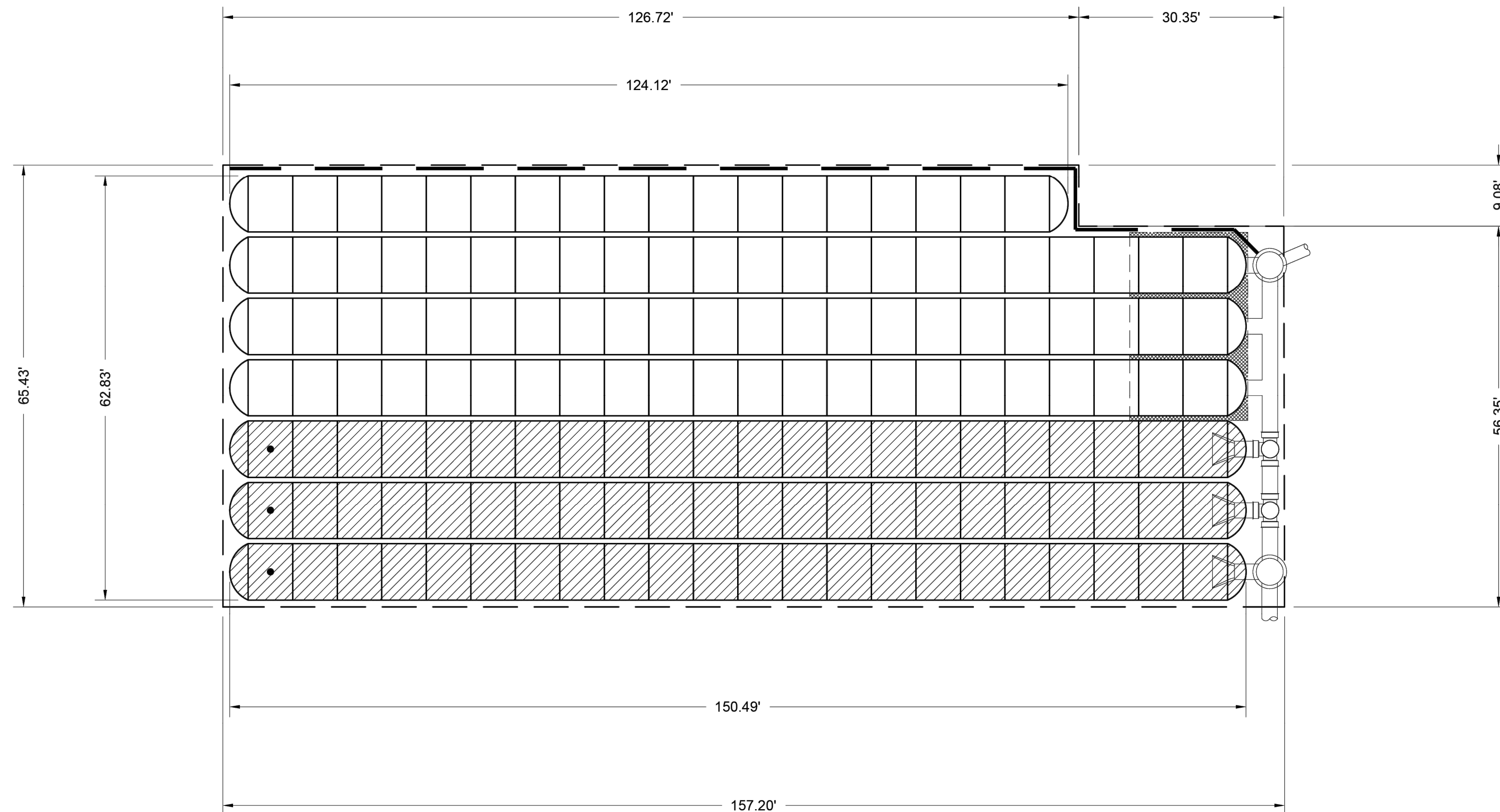
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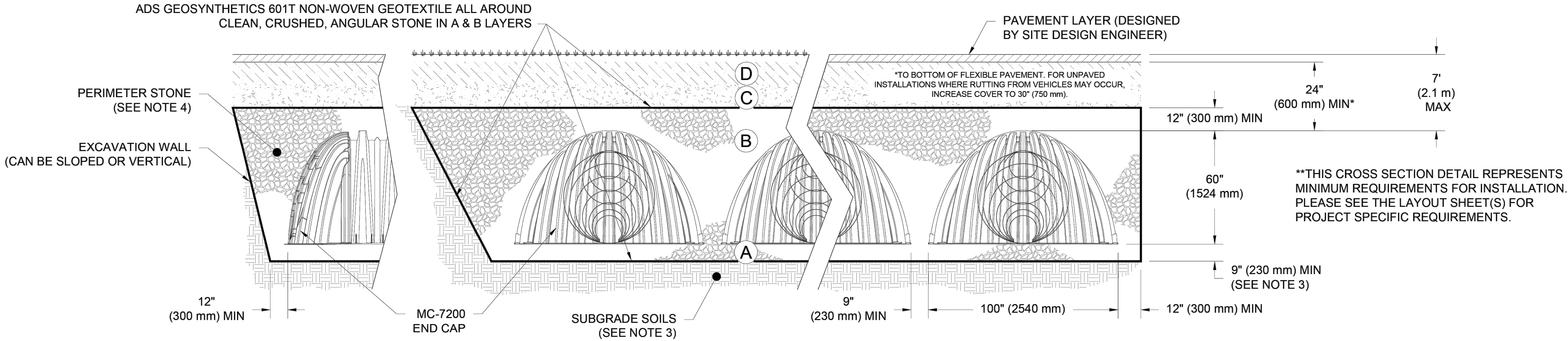
EASEMENT REFERENCE				REVISIONS			PLAN PREPARED BY: 	UNDERGROUND DETENTION DETAILS	PROJECT TITLE: PRIVATE STORM SEWER, GRADING AND DETENTION AREAS FOR INNIS APARTMENTS 2150 INNIS ROAD COLUMBUS, FRANKLIN COUNTY, OHIO	CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER RECLAMATION DIVISION USE ONLY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ⁵	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ⁵	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE ^{2,3}

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
 - WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101
- MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3" (75 mm).
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION. a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

INNIS APARTMENTS

COLUMBUS, OH

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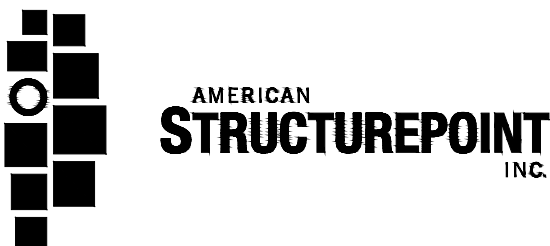
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FOR
INNIS APARTMENTS
2150 INNIS ROAD
COLUMBUS, FRANKLIN COUNTY, OHIO

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CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER RECLAMATION

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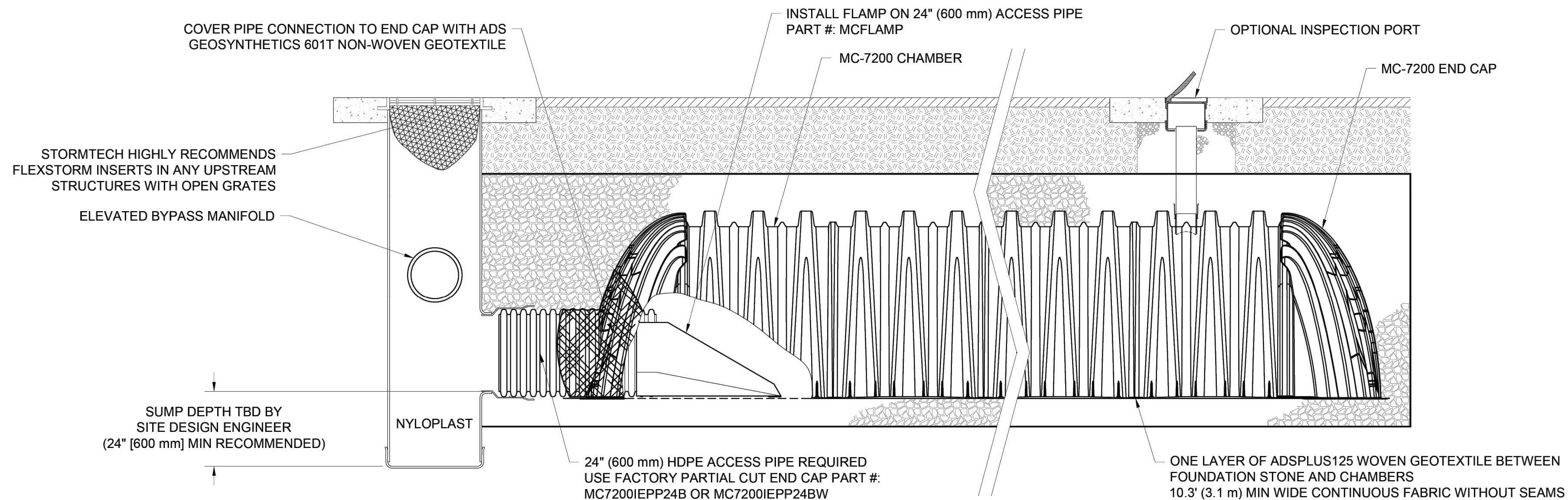
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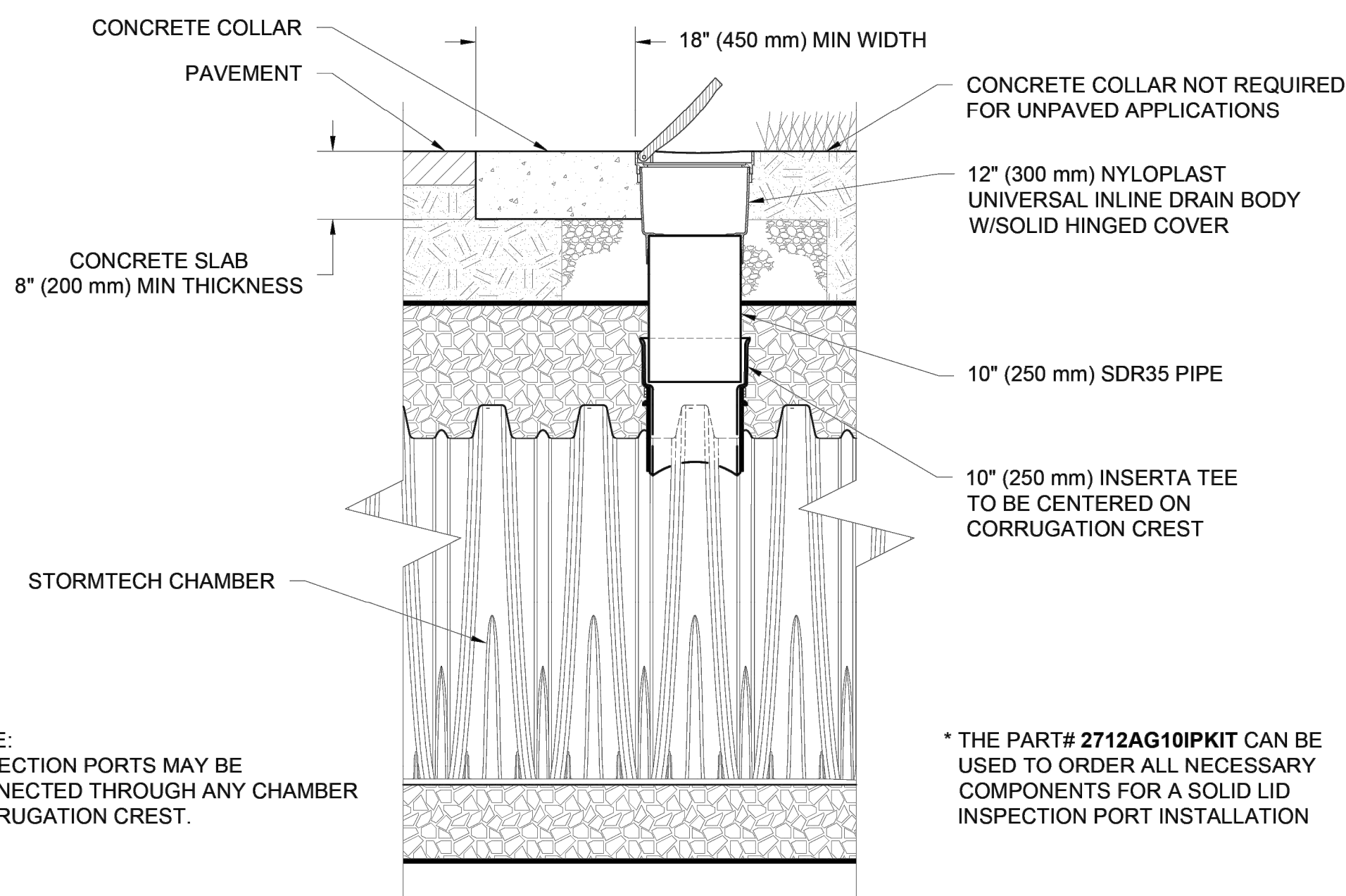
MC-7200 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
 - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - B. ALL ISOLATOR PLUS ROWS
 - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
 - B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

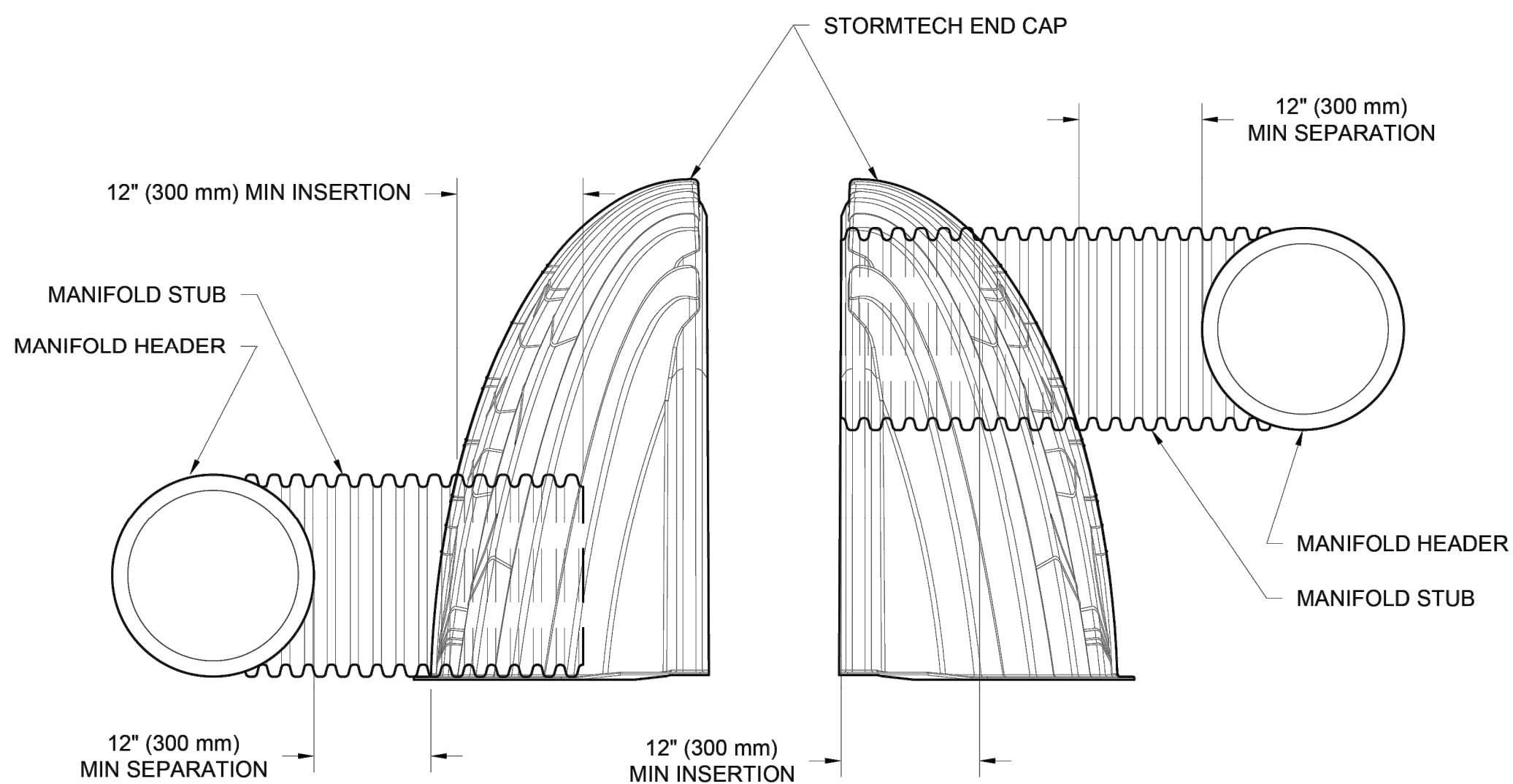
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



10" (250 mm) PVC INSPECTION PORT DETAIL
(MC SERIES CHAMBER)
NTS

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CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		DIVISION USE ONLY					OWNER					SCALE: N/A		SHEET 16 / 21	
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NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

NTS

79.1\"
(2010 mm)
INSTALLED

83.4\"
(2120 mm)

VALLEY STIFFENING RIB

CREST

WEB

UPPER JOINT CORRUGATION

CREST STIFFENING RIB

FOOT

⇐ BUILD ROW IN THIS DIRECTION

60.0\"
(1524 mm)

100.0\" (2540 mm)

61.0\"
(1549 mm)

90.0\" (2286 mm)

32.8\"
(833 mm)
INSTALLED

38.0\"
(965 mm)

NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)
CHAMBER STORAGE
MINIMUM INSTALLED STORAGE*
WEIGHT (NOMINAL)

100.0\" X 60.0\" X 79.1\"
(2540 mm X 1524 mm X 2010 mm)
175.9 CUBIC FEET
(4.98 m³)
267.3 CUBIC FEET
(7.56 m³)
205 lbs.
(92.9 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)
END CAP STORAGE
MINIMUM INSTALLED STORAGE*
WEIGHT (NOMINAL)

90.0\" X 61.0\" X 32.8\"
(2286 mm X 1549 mm X 833 mm)
39.5 CUBIC FEET
(1.12 m³)
115.3 CUBIC FEET
(3.26 m³)
90 lbs.
(40.8 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS. 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC4500IEPP06T	6" (150 mm)	42.54" (1081 mm)	---
MC4500IEPP06B		---	0.86" (22 mm)
MC4500IEPP08T	8" (200 mm)	40.50" (1029 mm)	---
MC4500IEPP08B		---	1.01" (26 mm)
MC4500IEPP10T	10" (250 mm)	38.37" (975 mm)	---
MC4500IEPP10B		---	1.33" (34 mm)
MC4500IEPP12T	12" (300 mm)	35.69" (907 mm)	---
MC4500IEPP12B		---	1.55" (39 mm)
MC4500IEPP15T	15" (375 mm)	32.72" (831 mm)	---
MC4500IEPP15B		---	1.70" (43 mm)
MC4500IEPP18T	18" (450 mm)	29.36" (746 mm)	---
MC4500IEPP18TW		---	1.97" (50 mm)
MC4500IEPP18B		---	
MC4500IEPP18BW	24" (600 mm)	23.05" (585 mm)	---
MC4500IEPP24T		---	2.26" (57 mm)
MC4500IEPP24TW		---	
MC4500IEPP24B		---	
MC4500IEPP24BW		---	2.95" (75 mm)
MC4500IEPP30BW	36" (900 mm)	---	
MC4500IEPP36BW	42" (1050 mm)	---	
MC4500IEPP42BW			3.25" (83 mm)
			3.55" (90 mm)

CUSTOM PREFABRICATED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-7200 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

NOTE: ALL DIMENSIONS ARE NOMINAL

INNIS APARTMENTS

COLUMBUS, OH

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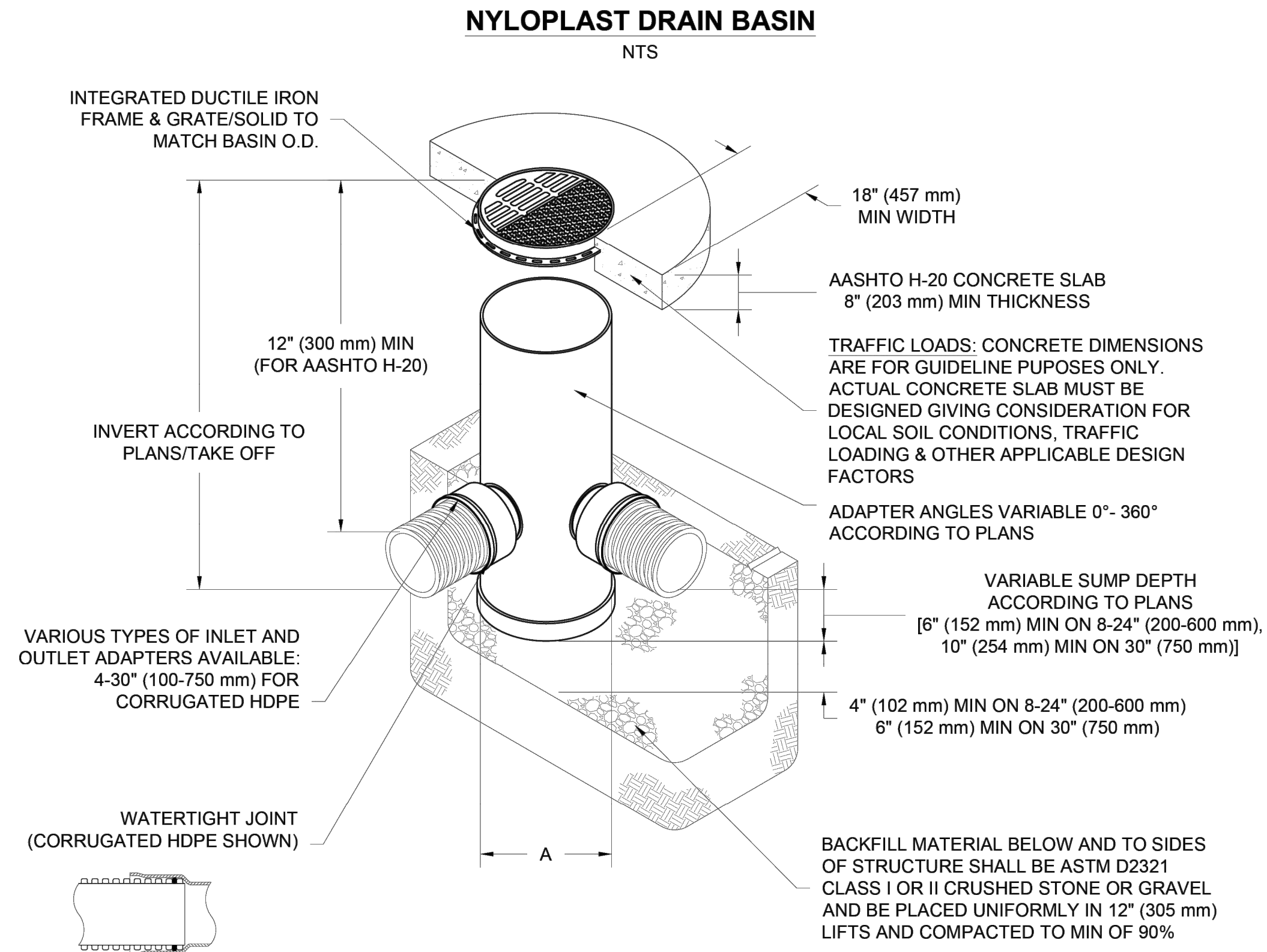
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NOTES

1. 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2. 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
5. FOR COMPLETE DESIGN AND PRODUCT INFORMATION: WWW.NYLOPLAST-US.COM
6. TO ORDER CALL: **800-821-6710**

A	PART #	GRATE/SOLID COVER OPTIONS		
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

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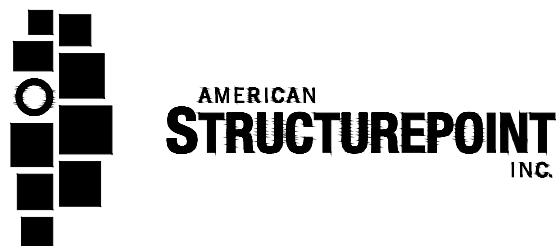
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