# CITY OF DUBLIN FINAL DEVELOPMENT PLAN **FOR** MOUNT CARMEL HEALTH SYSTEM - DUBLIN CAMPUS

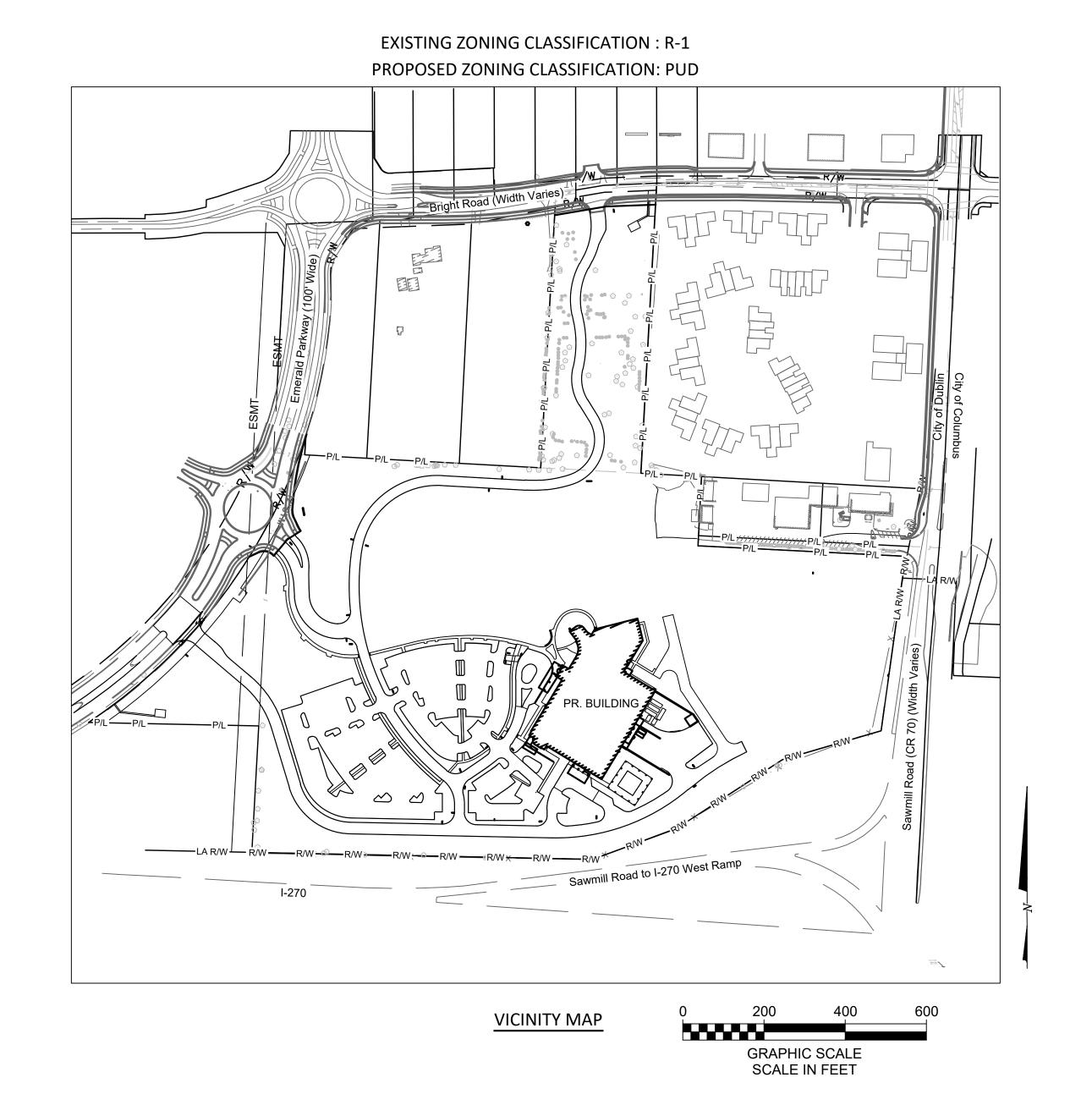
2022

PLAN SHEET INDEX: C315-C316 ...... UTILITY DETAILS C400 ...... SANITARY CC PLAN TITLE SHEET C401 ..... GENERAL NOTES C402 ..... PLAN AND PROFILE C403-C404 ..... MAINTENANCE OF TRAFFIC C500 ..... EMERALD PARKWAY IMPROVMENTS TITLE SHEET C501 ..... GENERAL NOTES C502 ..... GENERAL SUMMARY C503 ..... TYPICAL SECTIONS C504 ...... SEDIMENT & EROSION CONTROL PLAN C505 ..... EROSION CONTROL PLAN DETAILS C506 ..... PLAN AND PROFILE C507 ...... INTERSECTION AND CURB RAMP DETAILS C508 ..... MAINTENANCE OF TRAFFIC C509 ...... PAVEMENT MARKING AND SIGNING TURN1 ..... AMBULANCE AUTOTURN EXHIBIT ..... DELIVERY TRUCK AUTOTURN EXHIBIT TURN3 ...... DELIVERY TRUCK AUTOTURN EXHIBIT TURN4 ..... FIRE TRUCK AUTOTURN EXHIBIT TURN5 ..... FIRE TRUCK AUTOTURN EXHIBIT LANDSCAPE GENERAL NOTES AND INDEX L0.02 ...... OVERALL PLAN RENDERING L0.03 - L0.05 ....... TREE PRESERVATION & REPLACEMENT L0.06 ...... PLANTING CHARACTER L1.00 ...... PLANTING NOTES AND SCHEDULE L1.01 ..... PLANTING KEY PLAN L1.02 ..... PLANTING ZONE 01 L1.03 ..... PLANTING ZONE 02 L1.04 ..... PLANTING ZONE 03 L1.05 ..... PLANTING ZONE 04 L1.06 ..... PLANTING ZONE 05 L1.07 ..... SITE DETAILS L2.01 ...... PEDESTRIAN AND BICYCLE CIRCULATION L2.02 ..... SITE FURNISHINGS L3.00 ..... SIGNAGE PLAN

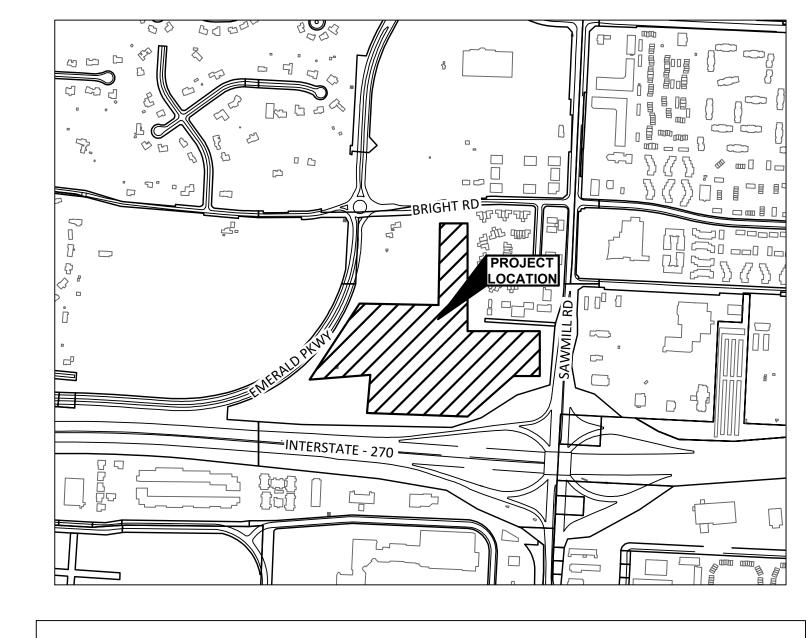
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L107 ...... OVERALL SITE PLAN L108 - L109..... SITE DETAIL

ARCHITECTURAL SHEETS
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A401-A402 ...... OVERALL EXTERIOR ELEVATIONS



PARKING CALCULATIONS PHASE 1						
					PARKING CALCULATION PARKING REQUIRED	
HOSPITAL PATIENT (150,408 SF)	1.5 SPACES PER 1000 SF	226				
HOSPITAL STAFF	198					
	PHASE 1 REQUIRED SPACES	424				
PHASE 1 PROVIDED SPACES 424						
PHASE 2 (FUL	L BUILD OUT)					
30 BED SHELL ADDITION (PATIENT)(25,000 SF)	1.5 SPACES PER 1000 SF	38				
30 BED SHELL ADDITION (STAFF)	7 STAFF x 1.3 SHIFT CHANGE	10				
ADDITIONAL STAFF PARKING (HORIZONTAL EXPANSION OF STAFF SPACE AND SUPPORT SERVICES WITHIN THE HOSPITAL)(35,000SF)	41 STAFF X 1.3 FOR SHIFT	53				
NEW SEPARATE MEDICAL OFFICE BUILDING (40,000 SF)	4 SPACES PER 1000 SF	160				
NEW MEDICAL OFFICE BUILDING ATTACHED TO HOSPITAL (51,500 SF)	4 SPACES PER 1000 SF	206				
	PHASE 2 REQUIRED SPACES	467				
	PHASE 1 AND PHASE 2 REQUIRED	891				
	PROVIDED SPACES	891				



APPLICANT	DAT
PLANNING AND ZONING COMMISSION SECRETARY	DATE
PLANNING AND ZONING COMMISSION APPROVAL DATE: CITY COUNCIL APPROVAL DATE:	

BUILDING	BUILDING TYPE			
MEDICAL	HOSPITAL			
MEDICAL	MEDICAL OFFICE BUILDING			
LOT COVEDACE				
LOT COVERAGE				
1				

**BUILDING SUMMARY** 

LOT COVERAGE			
PHASE 1			
BUILDING FOOTPRINT	67,500 SF		
PERCENT OF TOTAL SITE	4.4%		
PHASE 2 (FULL BUILD OUT)			
BUILDING FOOTPRINT	118,500 SF		
PERCENT OF TOTAL SITE	7.8%		

SITE IMPERVIOUS/PERVIOUS AREA		
PRE-DEVELOPED SITE		
TOTAL SITE AREA	35.0 ACRES	
IMPERVIOUS AREA*	0.7 ACRES	
PERVIOUS AREA	34.3 ACRES	
PERCENT IMPERVIOUS	2.0%	
POST DEVELOPED SITE		
IMPERVIOUS AREA*	19.0 ACRES	
PERVIOUS AREA	16.0 ACRES	
PERCENT IMPERVIOUS	54.3 %	

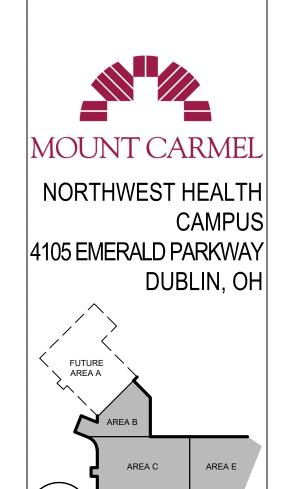
\*IMPERVIOUS AREA DOES NOT INCLUDES R/W IMPROVEMENTS

<b>BUILDING SQUARE FOOTAGE</b>				
PHASE 1				
HOSPITAL	150,408 SF			
PHASE 1 TOTAL	150,408 SF			
PHASE 2 (FULL BUILD OUT)				
HOSPITAL SHELL	25,000 SF			
HOSPITAL (BUILDING ADDITION)	35,000 SF			
MEDICAL OFFICE BUILDING 1 (ATTACHED TO HOSPITAL)	51,500 SF			
MEDICAL OFFICE BUILDING 2 (SEPARATE NEW BUILDING)	40,000 SF			
PHASE 2 TOTAL	151,500 SF			
HOSPITAL TOTAL SQUARE FOOTAGE	210,408 SF			
FULL BUILD OUT	302,908 SF			



**462 SOUTH LUDLOW ALLEY** 

**MOUNT CARMEL HEALTH** SYSTEM



S	NETRUC ONSTRUC	TION
$\triangle$ NO	DESCRIPTION	DATE

FINAL DEVELOPMENT PLAN TITLE SHEET

ISSUANCE HISTORY - THIS SHEET

FINAL DEVELOPMENT

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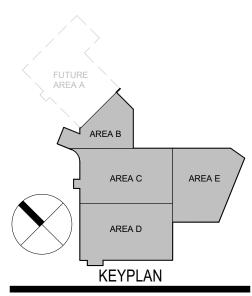
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**MOUNT CARMEL** HEALTH SYSTEM



NORTHWEST HEALTH CAMPUS 4105 EMERALD PARKWAY DUBLIN, OH



△NO DESCRIPTION DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 1927-004-00

LEVEL 01 - OVERALL PLAN

FINAL DEVELOPMENT PLAN





1 LEVEL 01 - OVERALL PLAN
3/64" = 1'-0"

NOTATION PLAN - LEVEL 01 - AREA B

### GENERAL NOTES - FLOOR PLAN

- A. ALL INTERIOR PARTITIONS SHALL BE "A3\_" UNLESS NOTED
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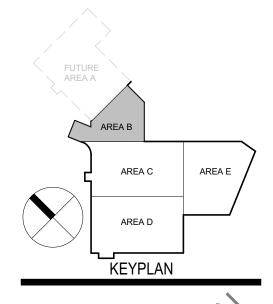
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**MOUNT CARMEL HEALTH** SYSTEM



4105 EMERALD PARKWAY



NO DESCRIPTION DATE

HGA NO: 1927-004-00

LEVEL 01 AREA B - NOTATION 🗖

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT



NOTATION PLAN - LEVEL 01 - AREA C

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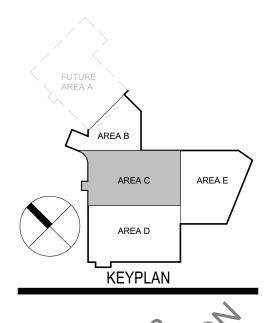
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**MOUNT CARMEL HEALTH SYSTEM** 





DUBLIN, OH

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1		Description	Date

ISSUANCE HISTORY - THIS SHEET

HGA NO: 1927-004-00

LEVEL 01 AREA C - NOTATION 🗖

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT



NOTATION PLAN - LEVEL 01 - AREA D

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HGA

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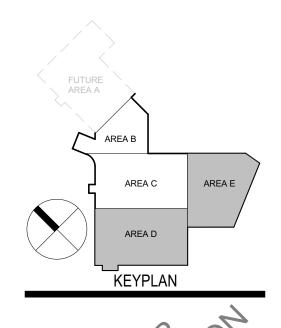
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MOUNT CARMEL HEALTH SYSTEM





DUBLIN, OH

G	NSTRUC	
$\triangle$ NO	DESCRIPTION	DAT
1	Description	Date
	ISSUANCE HISTORY - THIS	SHEET
HGA	NO: 1927-004-	-00

- NOTATION -

DATE: SEPTEMBER 6, 2022

FINAL DEVELOPMENT

A201D.3

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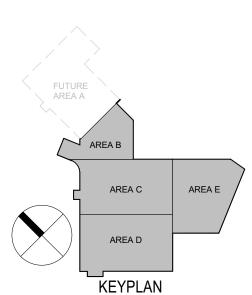
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**MOUNT CARMEL** HEALTH SYSTEM



NORTHWEST HEALTH CAMPUS 4105 EMERALD PARKWAY DUBLIN, OH



NO DESCRIPTION DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 1927-004-00

LEVEL 02 - OVERALL PLAN

FINAL DEVELOPMENT PLAN



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1 LEVEL 02 - OVERALL PLAN
3/64" = 1'-0"

1 NOTATION PLAN - LEVEL 02 - AREA B

1/8" = 1'-0"

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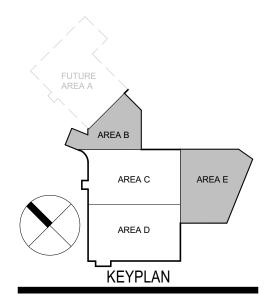


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MOUNT CARMEL HEALTH SYSTEM



4105 EMERALD PARKWAY DUBLIN, OH



△NO DESCRIPTION DATE

ISSUANCE HISTORY - THIS SHEET

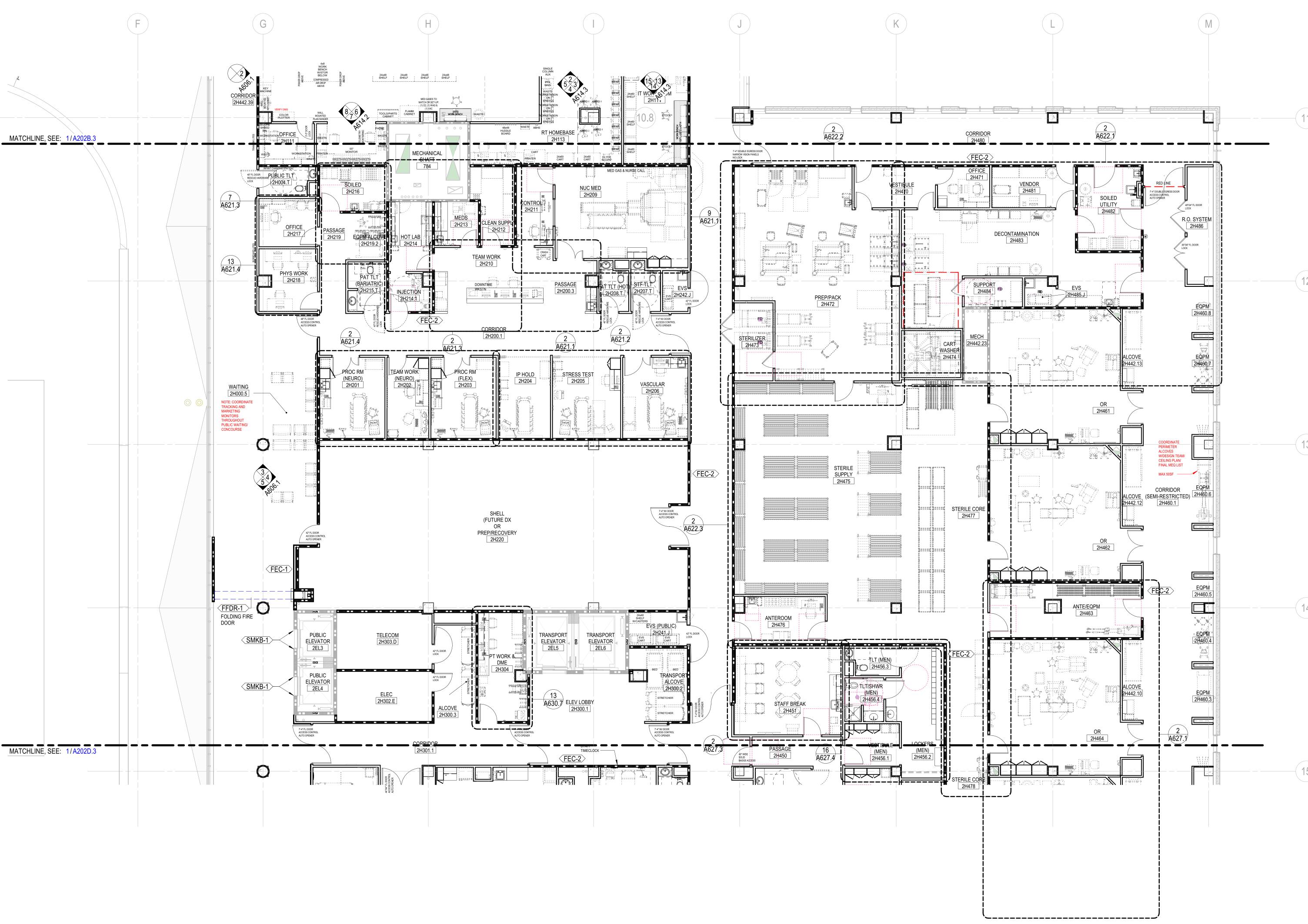
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LEVEL 02 AREA B - NOTATION 🚾

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT

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BLOCKING ARE INDICATED ON DRAWINGS.



NOTATION PLAN - LEVEL 02 - AREA C

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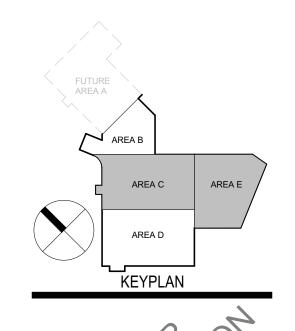
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**MOUNT CARMEL HEALTH SYSTEM** 



NORTHWEST HEALTH 4105 EMERALD PARKWAY DUBLIN, OH



 $\triangle$ NO DESCRIPTION DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 1927-004-00

LEVEL 02 AREA C - NOTATION -

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT

NOTATION PLAN - LEVEL 02 - AREA D

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- G. PRIOR TO CONCEALMENT OF FIRE RESISTIVE MATERIALS BY OTHER WORK, PATCH AND REPAIR AREAS OF REMOVED OR DAMAGED APPLIED FIREPROOFING. COORDINATE TESTING AND INSPECTION OF ASSEMBLIES AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- H. PROVIDE FIRESTOPPING OF PENETRATIONS AND VOIDS THROUGH FIRE-RATED WALL, FLOOR AND PARTITION ASSEMBLIES [AND ROOF] INCLUDING EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, PIPES, DUCTS, CONDUIT AND OTHER ELEMENTS.
- I. AT SOUND-RATED PARTITION WALLS, PROVIDE CONTINUOUS BEAD OF ACOUSTICAL SEALANT AT JUNCTURE OF BOTH FACES OF RUNNERS OR PLATES WITH FLOOR AND CEILING CONSTRUCTION, AND WHEREVER GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.
- AT OPENINGS AND CUTOUTS, FILL OPEN SPACES
  BETWEEN GYPSUM BOARD AND FIXTURES, CABINETS,
  DUCTS AND OTHER FLUSH OR PENETRATING ITEMS,
  WITH CONTINUOUS BEAD OF SEALANT.
- WITH CONTINUOUS BEAD OF SEALANT.
   SEAL SIDES AND BACKS OF ELECTRICAL BOXES TO COMPLETELY CLOSE OFF OPENINGS AND JOINTS.

HGA

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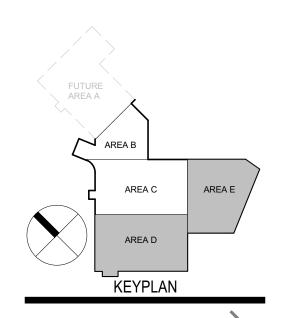
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MKSK

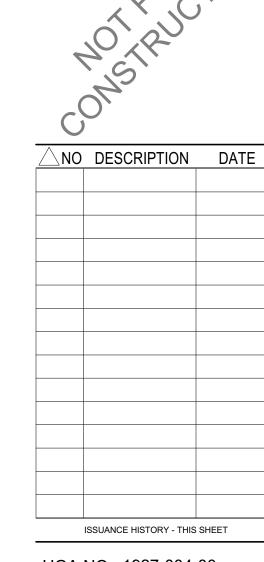
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MOUNT CARMEL HEALTH SYSTEM





DUBLIN, OH



HGA NO: 1927-004-00

- NOTATION LEVEL 02 AREA D

DATE: SEPTEMBER 6, 2022

FINAL DEVELOPMENT

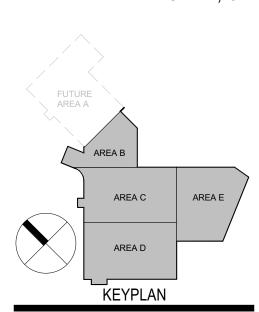
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MOUNT CARMEL
HEALTH
SYSTEM



NORTHWEST HEALTH CAMPUS 4105 EMERALD PARKWAY DUBLIN, OH



NO DESCRIPTION DATE

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HGA NO: 1927-004-

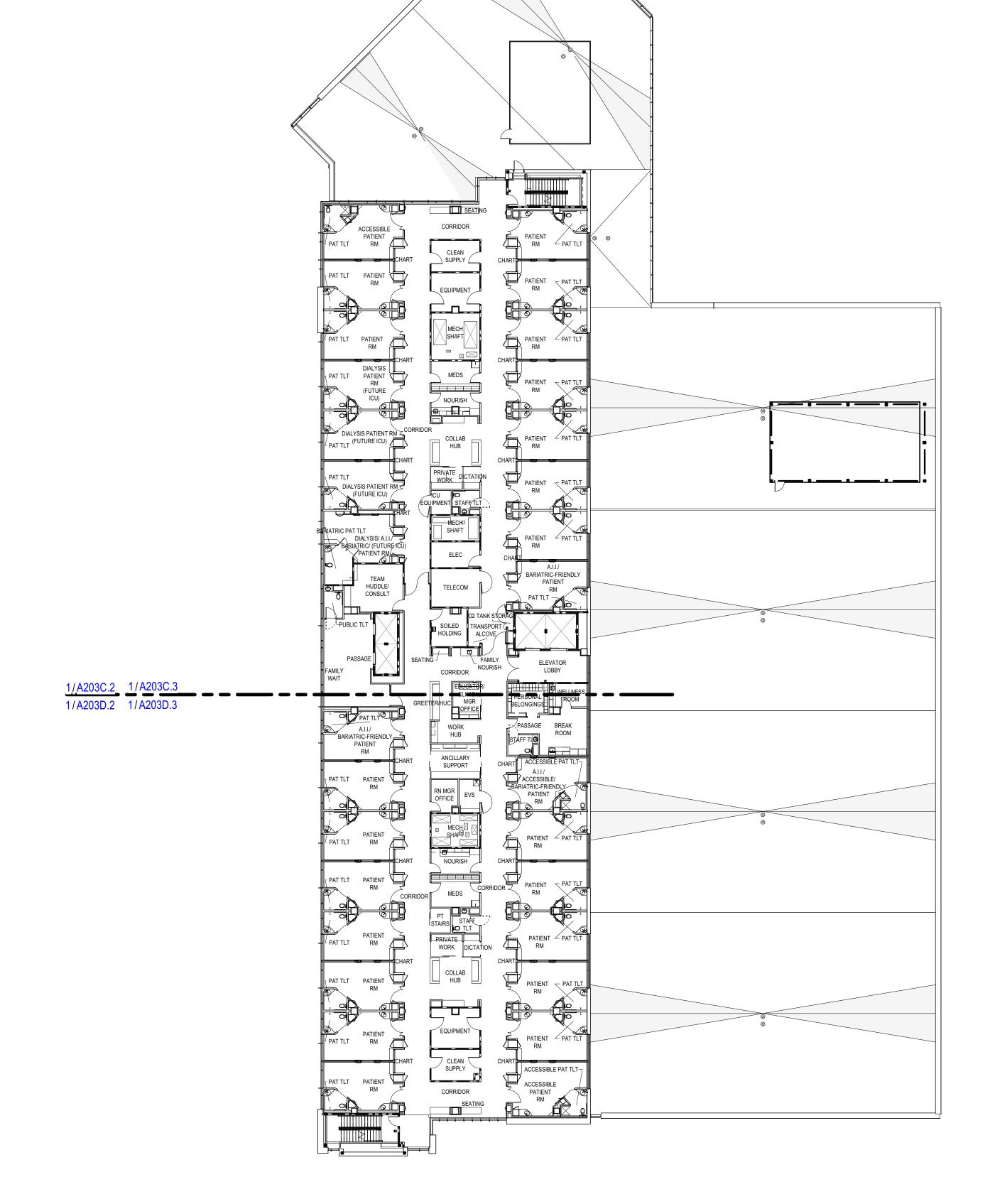
LEVEL 03 - OVERALL PLAN

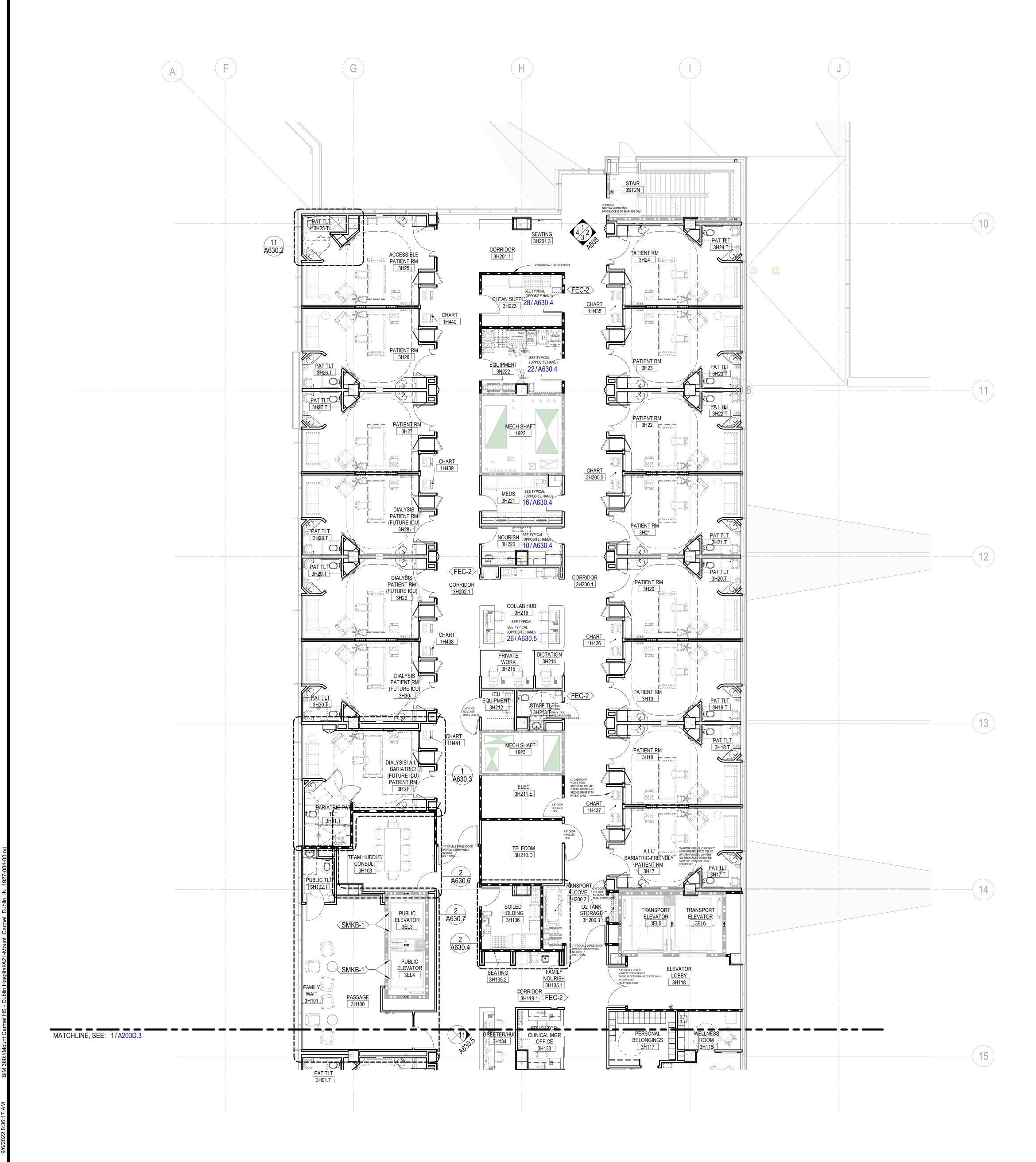
DATE: SEPTEMBER 6, 2022
FINAL DEVELOPMENT
PLAN

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A203.1





NOTATION PLAN - LEVEL 03 - AREA C

### GENERAL NOTES - FLOOR PLAN

- A. ALL INTERIOR PARTITIONS SHALL BE "A3\_" UNLESS NOTED OTHERWISE.
- B. PLAN DIMENSIONS ARE FROM FACE OF PARTITION TYPE AND DO NOT INCLUDE APPLIED FINISHES, UNLESS NOTED OTHERWISE. PLAN DIMENSIONS INDICATED AS "HOLD" OR "CLEAR" DIMENSIONS ARE FROM FACE OF APPLIED FINISH.
- C. INSTALL WORK STRAIGHT, PLUMB, LEVEL, SQUARE, AND TRUE, IN PROPER ALIGNMENT.
- D. FLATNESS: LEVEL FLOORS TO TRUE PLANE WITHIN 1/4 INCH (6 MM) IN 10'-0" (3 M) WHEN TESTED BY TEN FOOT (3 M) STRAIGHTEDGE PLACED ANYWHERE ON FLOOR IN ANY DIRECTION.
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- H. PROVIDE FIRESTOPPING OF PENETRATIONS AND VOIDS THROUGH FIRE-RATED WALL, FLOOR AND PARTITION ASSEMBLIES [AND ROOF] INCLUDING EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, PIPES, DUCTS, CONDUIT AND OTHER ELEMENTS.
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- SEAL SIDES AND BACKS OF ELECTRICAL BOXES TO COMPLETELY CLOSE OFF OPENINGS AND JOINTS.

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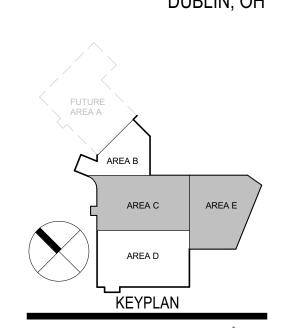


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**MOUNT CARMEL HEALTH SYSTEM** 



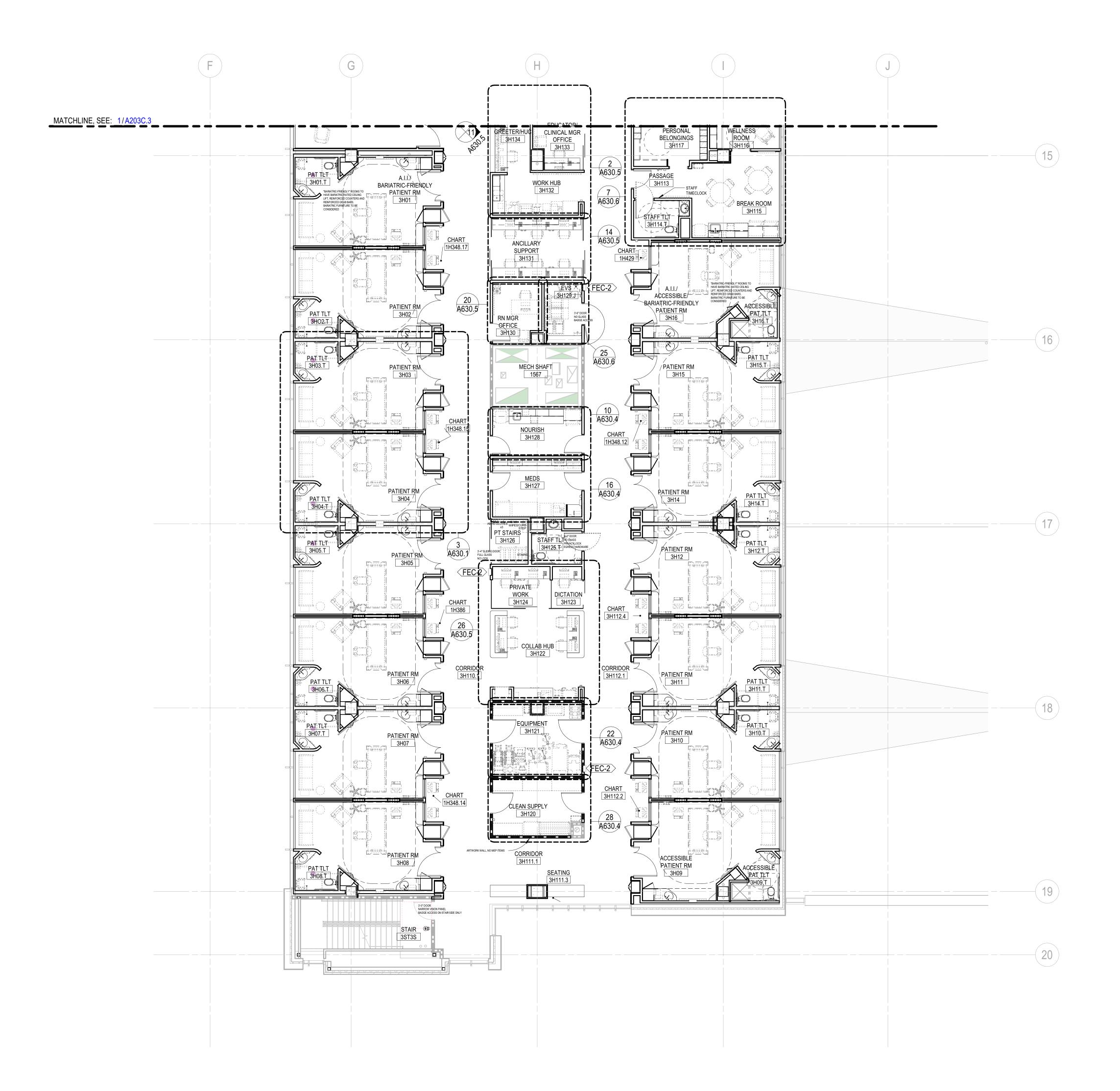
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LEVEL 03 AREA C - NOTATION 🔁

FINAL DEVELOPMENT PLAN



## 1 NOTATION PLAN - LEVEL 03 - AREA D

### GENERAL NOTES - FLOOR PLAN

- A. ALL INTERIOR PARTITIONS SHALL BE "A3\_" UNLESS NOTED OTHERWISE.
- B. PLAN DIMENSIONS ARE FROM FACE OF PARTITION TYPE AND DO NOT INCLUDE APPLIED FINISHES, UNLESS NOTED OTHERWISE. PLAN DIMENSIONS INDICATED AS "HOLD" OR
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HGA

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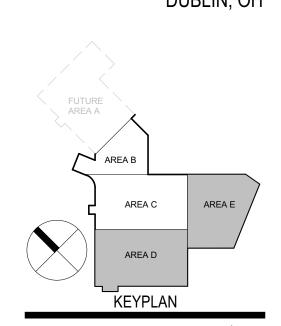


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MOUNT CARMEL HEALTH SYSTEM



NORTHWEST HEALTH CAMPUS 4105 EMERALD PARKWAY





HGA NO: 1927-004-

LEVEL 03 AREA D
- NOTATION

DATE: SEPTEMBER 6, 202

FINAL DEVELOPMENT PLAN

A203D.3

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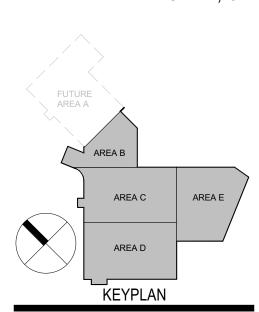


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**MOUNT CARMEL** HEALTH SYSTEM



NORTHWEST HEALTH CAMPUS 4105 EMERALD PARKWAY DUBLIN, OH

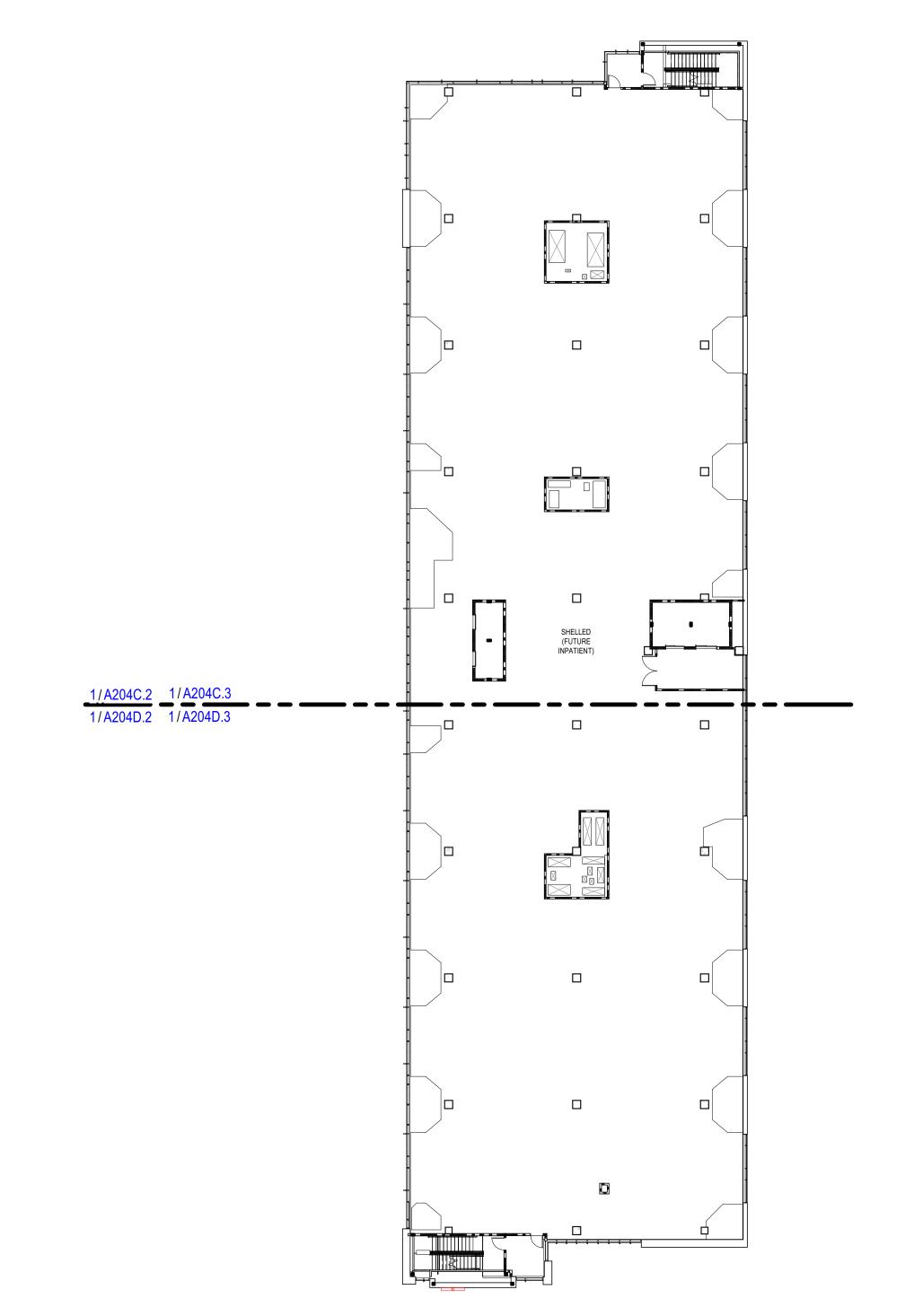


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HGA NO: 1927-004-00

LEVEL 04 - NATION OVERALL PLAN

FINAL DEVELOPMENT PLAN



GENERAL NOTES - FLOOR PLAN

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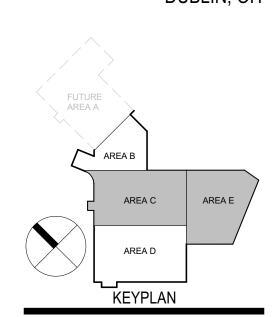


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**MOUNT CARMEL HEALTH SYSTEM** 



NORTHWEST HEALTH 4105 EMERALD PARKWAY





HGA NO: 1927-004-00

LEVEL 04 AREA C - NOTATION 🚾

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT PLAN

1 NOTATION PLAN - LEVEL 04 - AREA C

1/8" = 1'-0"

GENERAL NOTES - FLOOR PLAN

- A. ALL INTERIOR PARTITIONS SHALL BE "A3\_" UNLESS NOTED
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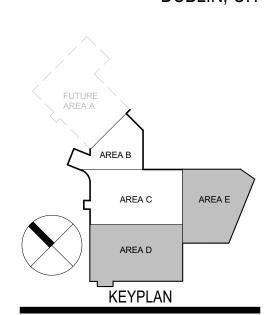


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**MOUNT CARMEL HEALTH SYSTEM** 



NORTHWEST HEALTH 4105 EMERALD PARKWAY





LEVEL 04 AREA D - NOTATION

FINAL DEVELOPMENT PLAN

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1 NOTATION PLAN - LEVEL 04 - AREA D

1/8" = 1'-0"

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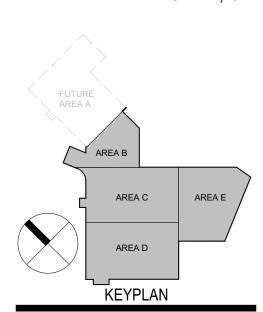


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**MOUNT CARMEL** HEALTH SYSTEM



NORTHWEST HEALTH CAMPUS 4105 EMERALD PARKWAY DUBLIN, OH



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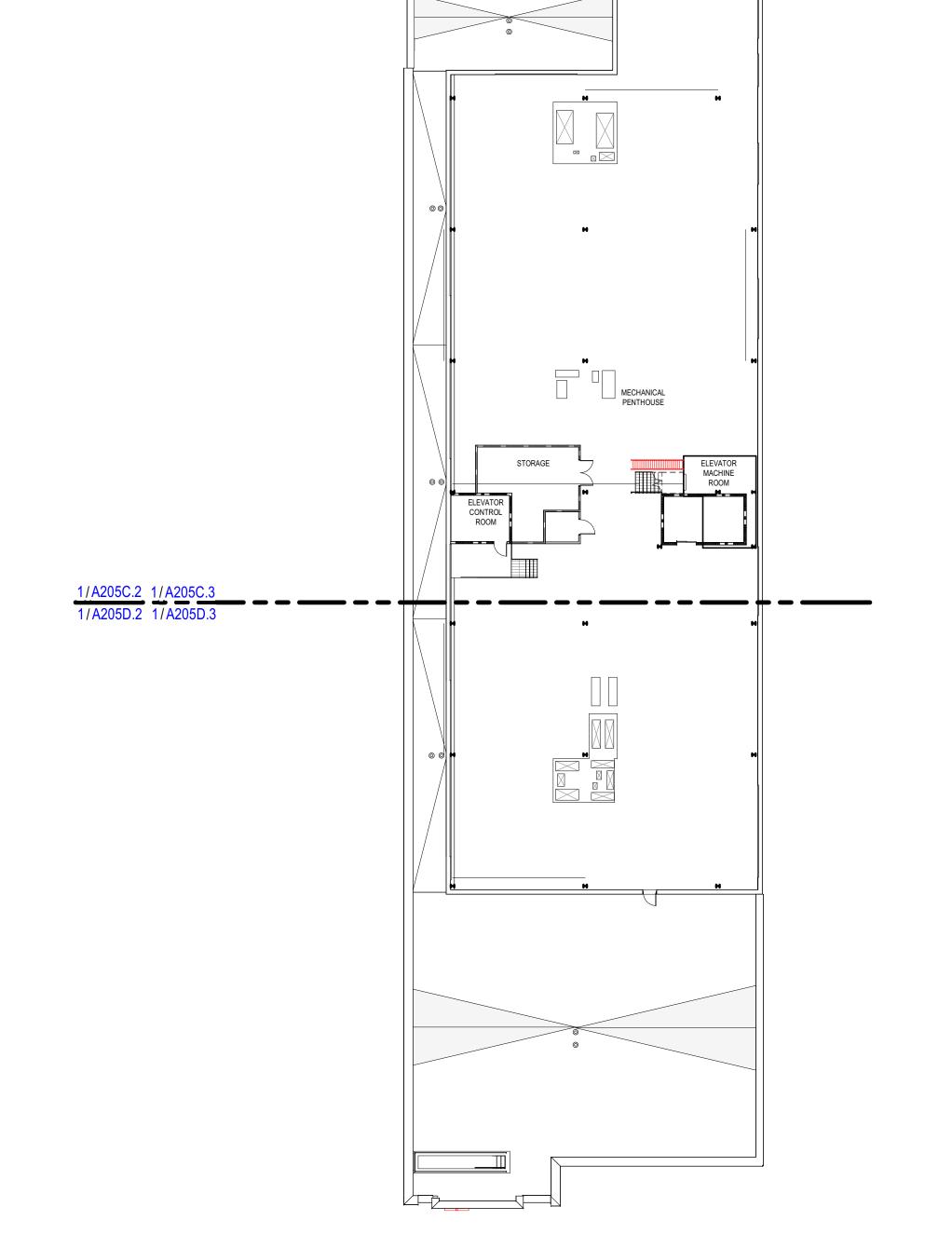
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LEVEL 05 - PARTIES OVERALL PLAN

FINAL DEVELOPMENT PLAN



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1 LEVEL 05 - OVERALL PLAN
3/64" = 1'-0"



### GENERAL NOTES - FLOOR PLAN

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HGA

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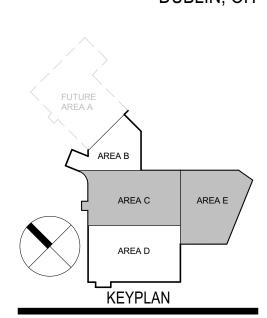


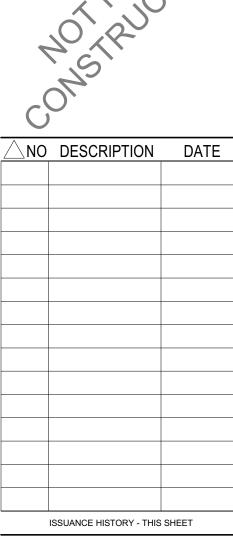
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MOUNT CARMEL HEALTH SYSTEM



NORTHWEST HEALTH CAMPUS 4105 EMERALD PARKWAY





HGA NO: 1927-004-00

- NOTATION PLAN

DATE: SEPTEMBER 6, 2022

FINAL DEVELOPMENT PLAN

A205C.3

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>AZU3C.3

1 NOTATION PLAN - LEVEL 05 - AREA D

1/8" = 1'-0"

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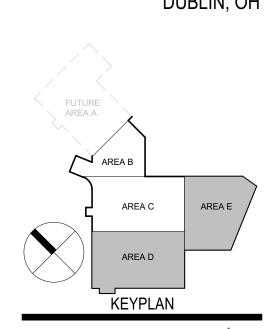


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**MOUNT CARMEL HEALTH SYSTEM** 



NORTHWEST HEALTH CAMPUS 4105 EMERALD PARKWAY DUBLIN, OH





LEVEL 05 AREA D - NOTATION

FINAL DEVELOPMENT PLAN

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# LANDSCAPE ARCHITECT

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MOUNT CARMEL HEALTH SYSTEM



FUTURE AREA B

AREA C

AREA D

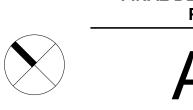
KEYPLAN

NO DESCRIPTION DATE

HGA NO: 1927-004-00

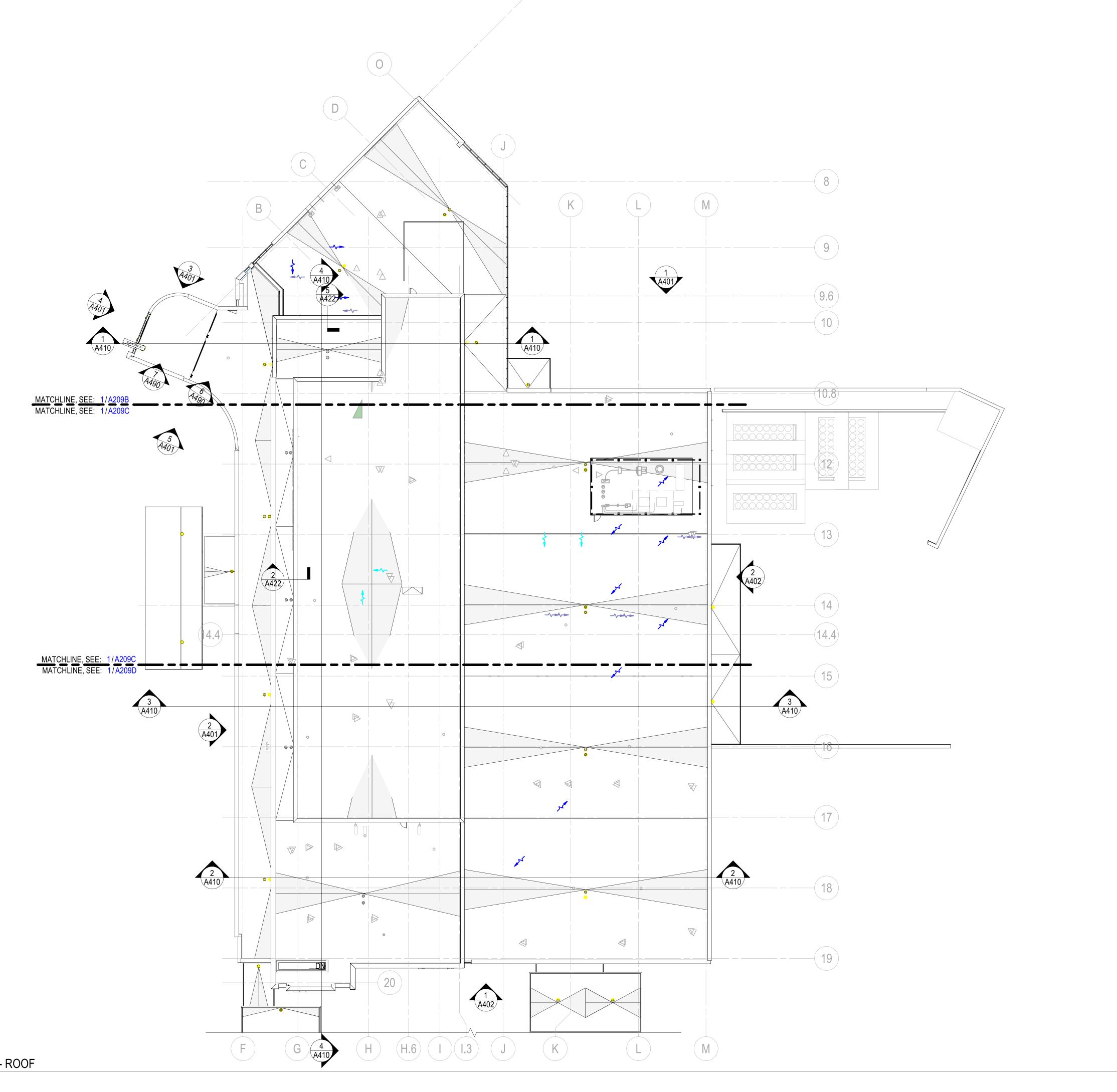
OVERALL ROOF PLAN

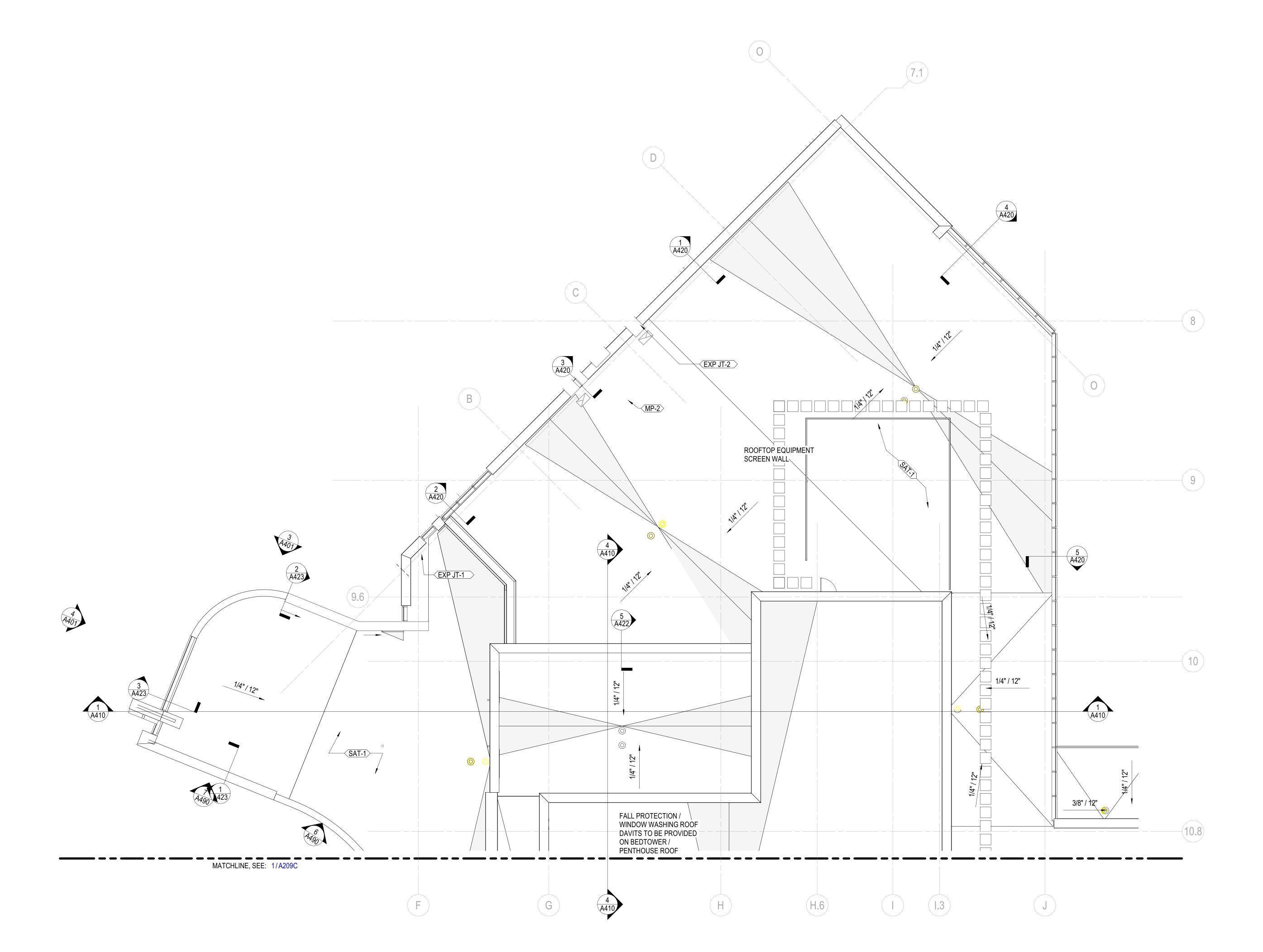
FINAL DEVELOPMENT
PLAN



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A209





1 FLOOR PLAN - ROOF - AREA B
1/8" = 1'-0"

### **GENERAL NOTES - ROOF PLAN**

- A. UNIFORMLY SLOPE TAPERED INSULATION MINIMUM 1/4" IN HEIGHT PER 1'-0" HORIZONTALLY (OR AS REQUIRED BY CODE) AT LEVEL ROOF AREAS, UNLESS OTHERWISE NOTED.
- B. MINIMUM ROOF INSULATION THICKNESS AT ROOF DRAINS (LOW POINT) = 5" SLOPE CRICKET INSULATION TO DRAIN AROUND PENETRATIONS (VENTS,
- STACK, ETC) AND AT VALLEYS BETWEEN ROOF DRAINS.

  C. UNLESS THERE ARE SCUPPERS PROVIDE SECONDARY ROOF DRAINS 2" ABOVE PRIMARY ROOF DRAIN.



Milwaukee, Wisconsin 53202 Telephone 414.278.8200



KORDA 1650 WATERMARK DRIVE COLMBUS, OH 43215 614.487.1650

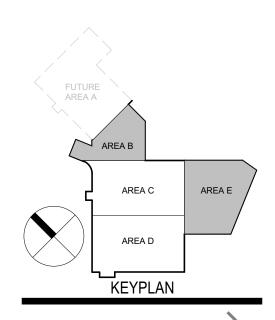


MKSK 462 SOUTH LUDLOW ALLEY COLUMBUS, OH 43215 614.621.2796

**MOUNT CARMEL** HEALTH SYSTEM



NORTHWEST HEALTH CAMPUS 4105 EMERALD PARKWAY DUBLIN, OH

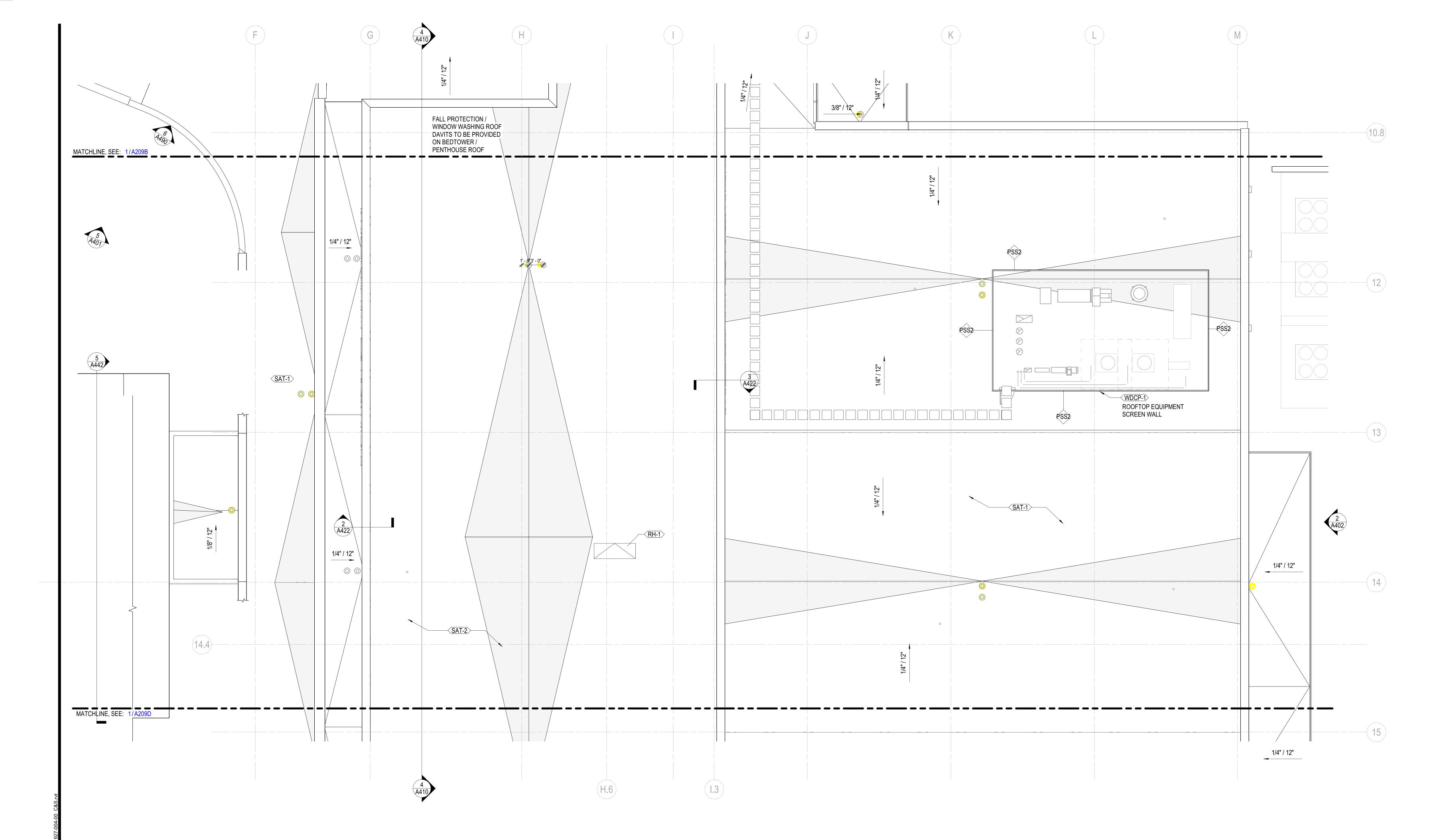




FINAL DEVELOPMENT PLAN







1 FLOOR PLAN - ROOF - AREA C
1/8" = 1'-0"

### **GENERAL NOTES - ROOF PLAN**

- A. UNIFORMLY SLOPE TAPERED INSULATION MINIMUM 1/4" IN HEIGHT PER 1'-0" HORIZONTALLY (OR AS REQUIRED BY CODE) AT LEVEL ROOF AREAS, UNLESS
- B. MINIMUM ROOF INSULATION THICKNESS AT ROOF DRAINS (LOW POINT) = 5" SLOPE CRICKET INSULATION TO DRAIN AROUND PENETRATIONS (VENTS,
- STACK, ETC) AND AT VALLEYS BETWEEN ROOF DRAINS. C. UNLESS THERE ARE SCUPPERS PROVIDE SECONDARY ROOF DRAINS 2" ABOVE PRIMARY ROOF DRAIN.

333 East Erie Street Milwaukee, Wisconsin 53202 Telephone 414.278.8200

KORDA NEMETH ENGINEERING CIVIL/MECHANICAL/ELECTRICAL/ PLUMBING/STRUCTURAL/ TECHNOLOGY ENGINEER

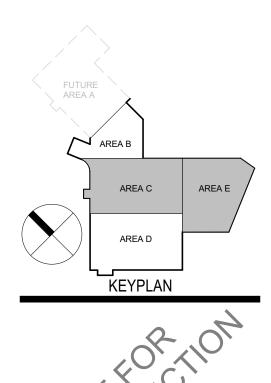
KORDA 1650 WATERMARK DRIVE COLMBUS, OH 43215 614.487.1650

MKSK 462 SOUTH LUDLOW ALLEY COLUMBUS, OH 43215 614.621.2796

MOUNT CARMEL HEALTH SYSTEM



CAMPUS 4105 EMERALD PARKWAY DUBLIN, OH



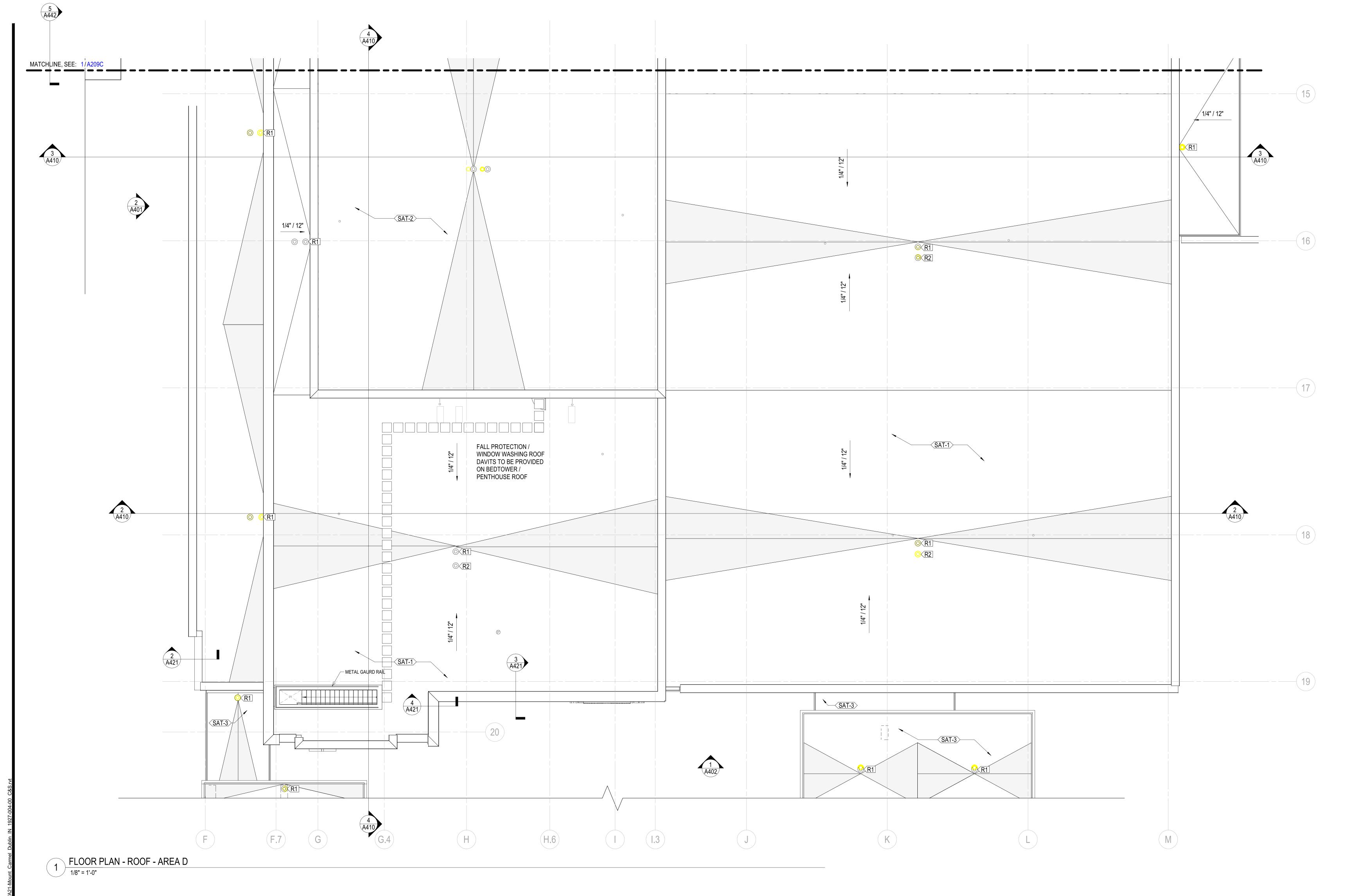
△NO DESCRIPTION DATE



AREA C

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT





**GENERAL NOTES - ROOF PLAN** 

A. UNIFORMLY SLOPE TAPERED INSULATION MINIMUM 1/4" IN HEIGHT PER 1'-0" HORIZONTALLY (OR AS REQUIRED BY CODE) AT LEVEL ROOF AREAS, UNLESS OTHERWISE NOTED.

B. MINIMUM ROOF INSULATION THICKNESS AT ROOF DRAINS (LOW POINT) = 5" SLOPE CRICKET INSULATION TO DRAIN AROUND PENETRATIONS (VENTS, STACK, ETC) AND AT VALLEYS BETWEEN ROOF DRAINS.

STACK, ETC) AND AT VALLEYS BETWEEN ROOF DRAINS.

C. UNLESS THERE ARE SCUPPERS PROVIDE SECONDARY ROOF DRAINS 2"
ABOVE PRIMARY ROOF DRAIN.

KEYNOTES - ROOF PLAN

Key Value Keynote Text

R1 ROOF DRAIN - REFER TO DETAIL X/XXX

R2 OVERFLOW ROOF DRAIN - REFER TO DETAIL X/XXX

HGA

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KORDA NEMETH ENGINEERING
CIVIL/MECHANICAL/ELECTRICAL/

CIVIL/MECHANICAL/ELECTRICAL/PLUMBING/STRUCTURAL/TECHNOLOGY ENGINEER

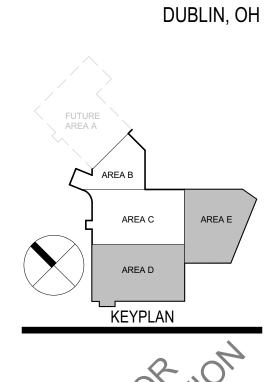
KORDA
1650 WATERMARK DRIVE
COLMBUS, OH 43215
614.487.1650

MKSK

MKSK 462 SOUTH LUDLOW ALLEY COLUMBUS, OH 43215 614.621.2796

MOUNT CARMEL HEALTH SYSTEM



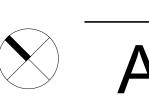




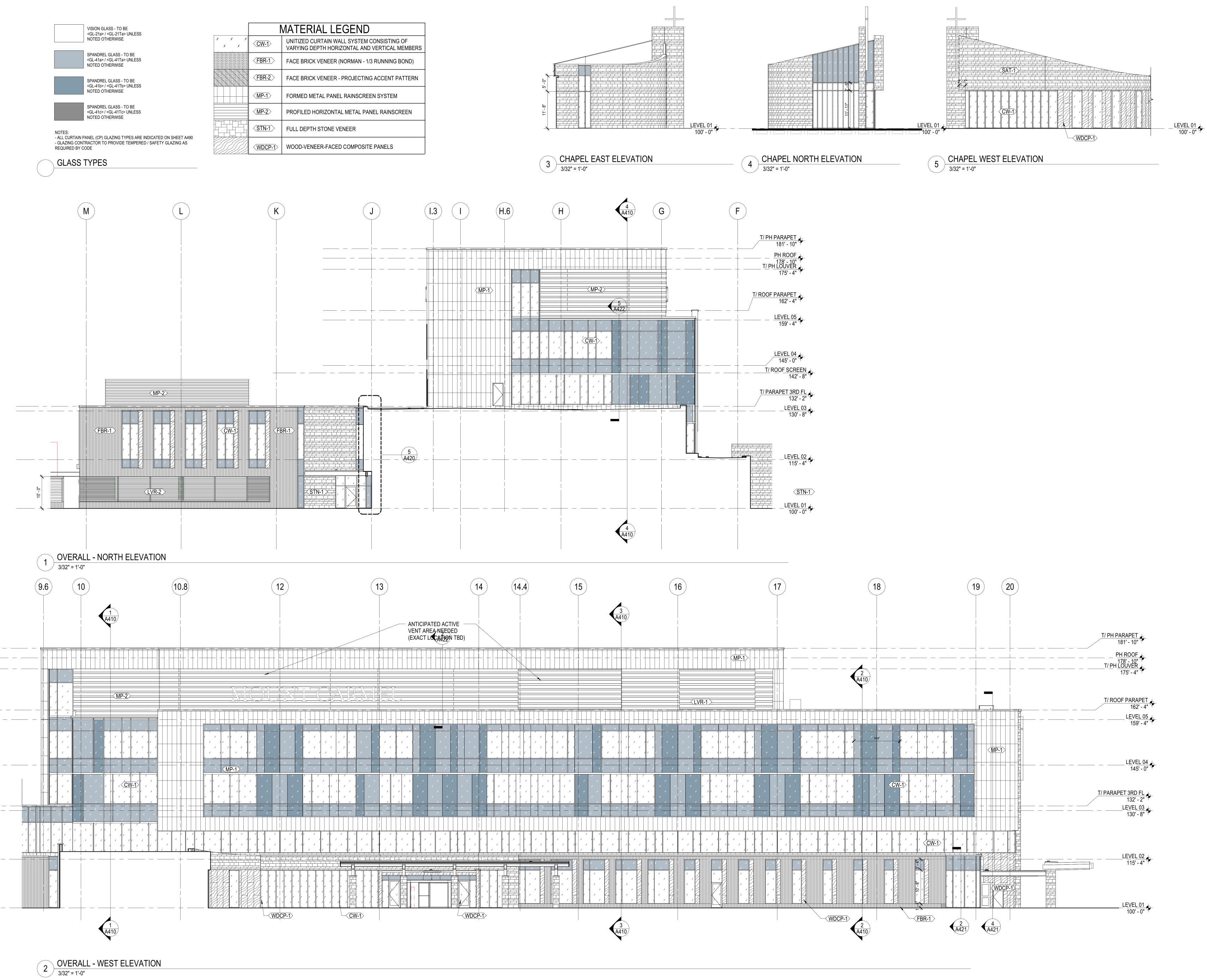
ROOF PLAN - Y

DATE: SEPTEMBER 6, 2022

FINAL DEVELOPMENT



A209D



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> KORDA 1650 WATERMARK DRIVE COLMBUS, OH 43215 614.487.1650

462 SOUTH LUDLOW ALLEY COLUMBUS, OH 43215 614.621.2796

**MOUNT CARMEL HEALTH SYSTEM** 



4105 EMERALD PARKWAY DUBLIN, OH

△NO DESCRIPTION DATE

ISSUANCE HISTORY - THIS SHEET

OVERALL 4 EXTERIOR = ELEVATIONS 🗏

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT PLAN



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KORDA KORDA/NEMETH ENGINEERING CIVIL/MECHANICAL/ELECTRICAL/ PLUMBING/STRUCTURAL/ TECHNOLOGY ENGINEER

> KORDA 1650 WATERMARK DRIVE COLMBUS, OH 43215 614.487.1650

462 SOUTH LUDLOW ALLEY COLUMBUS, OH 43215 614.621.2796

**MOUNT CARMEL HEALTH SYSTEM** 



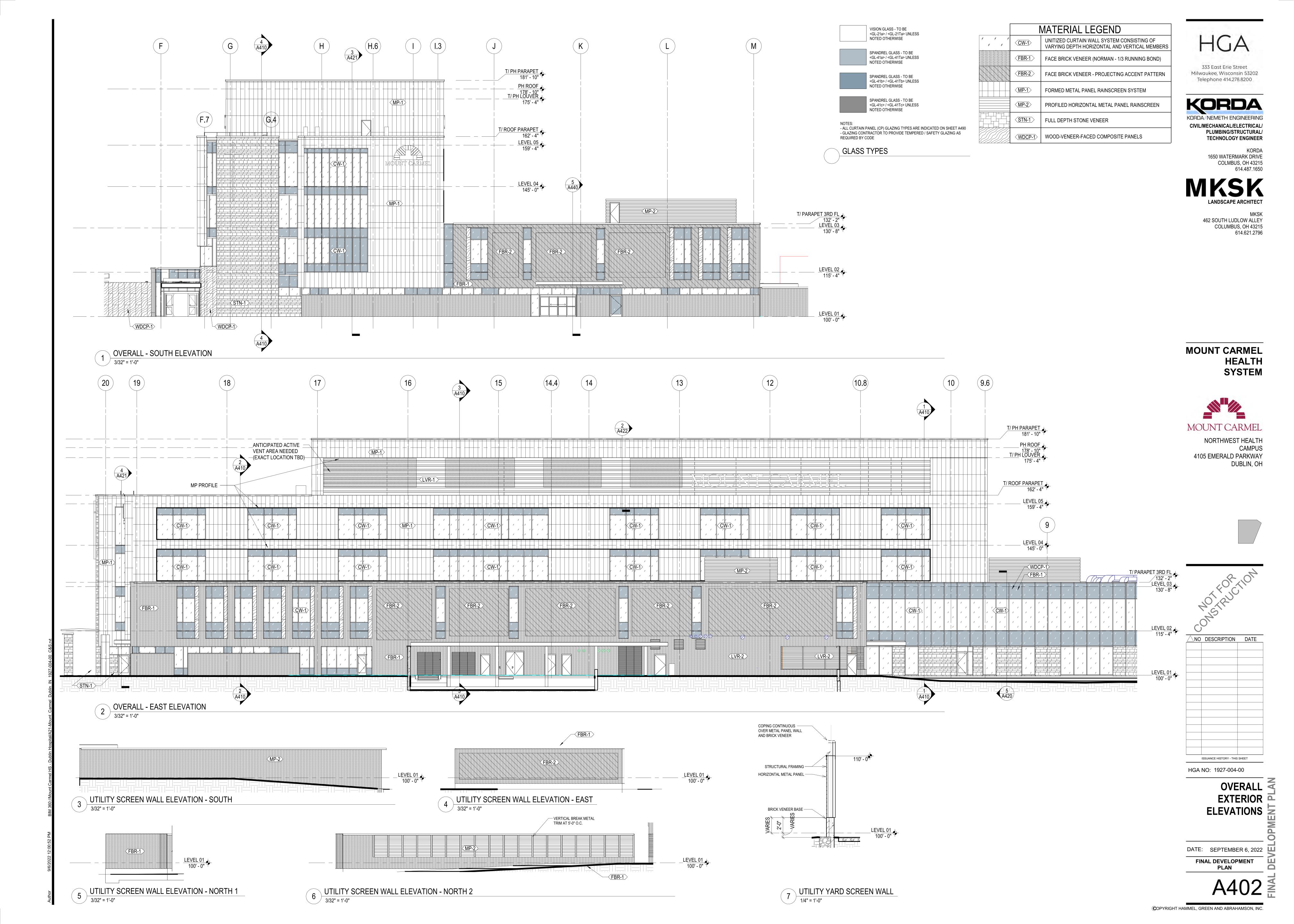
4105 EMERALD PARKWAY DUBLIN, OH

△NO DESCRIPTION DATE

ISSUANCE HISTORY - THIS SHEET

OVERALL 4 EXTERIOR = ELEVATIONS 🗏

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT PLAN



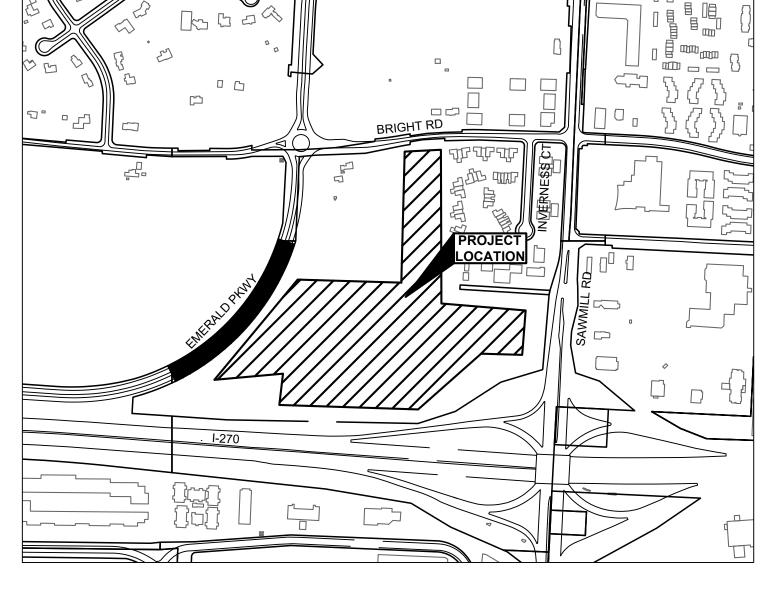
## CITY OF DUBLIN

**ENGINEERING SUBMITTAL** 

### **FOR**

## MOUNT CARMEL HEALTH SYSTEM - DUBLIN CAMPUS

2022



**VICINITY MAP** 

### **INDEX OF SHEETS**

C401 ..... GENERAL NOTES C402 ..... PLAN AND PROFILE C403-C404..... MAINTANENCE OF TRAFFIC

C500 ..... EMERALD PARKWAY IMPROVMENTS TITLE SHEET C501 ..... GENERAL NOTES C502 ..... GENERAL SUMMARY C503 ...... TYPICAL SECTIONS

C504 ...... SEDIMENT & EROSION CONTROL PLAN EROSION CONTROL PLAN DETAILS C506 ...... PLAN AND PROFILE C507 ...... INTERSECTION AND CURB RAMP DETAILS C508 ..... MAINTANENCE OF TRAFFIC C509 ..... PAVEMENT MARKING AND SIGNING

### LANDSCAPE SHEETS

LANDSCAPE NOTES AND INDEX **KEY PLAN** L003-L005...... TREE PRESERVATION & REPLACEMENT L100 ..... MATERIALS SCHEDULE L101-L105..... MATERIALS PLAN L106 ...... MATERIALS ENLARGEMENT A L107 ..... MATERIALS ENLARGEMENT B L200 ...... OVERALL LAYOUT PLAN

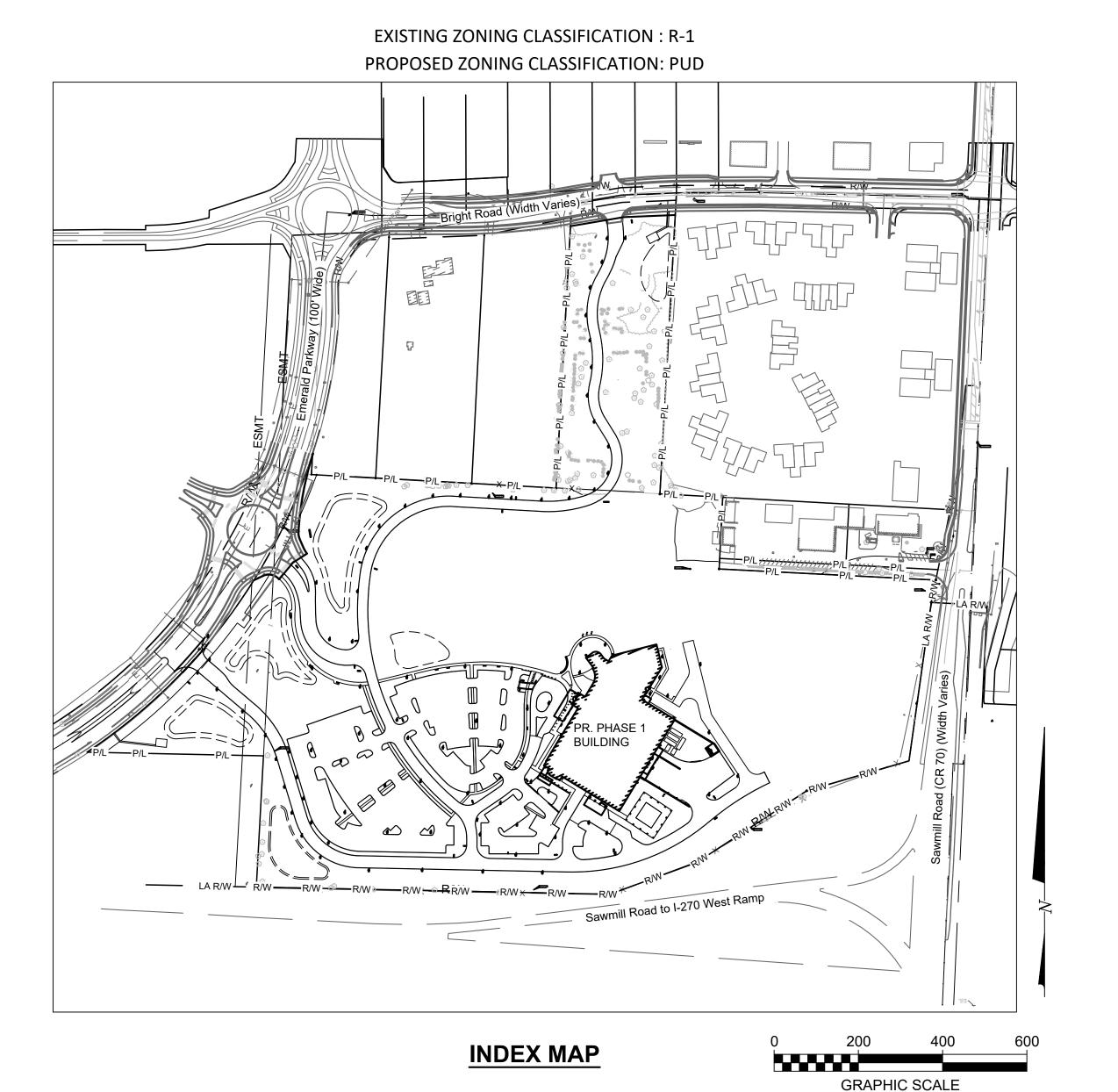
L201-L203..... LAYOUT PLAN ENLARGEMENT L300 ...... PLANTING SCHEDULE AND NOTES L301 ...... PLANTING PLAN ZONE 1 L302 ..... PLANTING PLAN ZONE 2 L303 ...... PLANTING PLAN ZONE 3 PLANTING PLAN ZONE 4 L305 ...... PLANTING PLAN ZONE 5 L306 ...... PLANTING ENLARGEMENT A PLANTING ENLARGEMENT B L400 ...... SOILS SCHEDULE AND NOTES L401-L405 ..... SOILS PLAN L500 ..... IRRIGATION PLAN

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LIGHTING SHEETS

ELECTRICAL SITE PLAN - AREA A E102B ..... ELECTRICAL SITE PLAN - AREA B E103C ..... ELECTRICAL SITE PLAN - AREA C E103D ..... ELECTRICAL SITE PLAN - AREA D E105E ..... ELECTRICAL SITE PLAN - AREA E E108 - E109..... SITE DETAIL E705 ..... ELECTRICAL SITE DETAILS

L600 ..... SITE DETAILS



STANDARD CONSTRUCTION DRAWINGS						
CITY OF DUBLIN		CITY OF COLUMBUS			ODOT	
			2000 3/30/2018	2170 4/30/2018	2195 3/30/2018	
			2202 07/01/2020	2300 07/01/2021	2319 07/01/2020	
			AA-S102 12/06/2013	AA-S112 12/06/2013		

SCALE IN FEET



**REGISTERED ENGINEER** 

SIGNATURES BELOW SIGNIFY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT ONLY AND DO NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

APPROVED:

DIRECTOR OF ENGINEERING/CITY ENGINEER

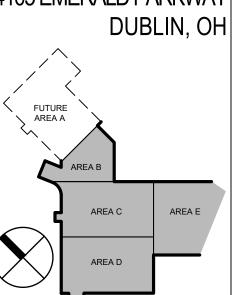
CITY OF DUBLIN, OHIO PAUL A. HAMMERSMITH, P.E. **MOUNT CARMEL HEALTH SYSTEM** 

462 SOUTH LUDLOW ALLEY

333 East Erie Street



NORTHWEST HEALTH 4105 EMERALD PARKWAY



RETPLAIN	
CONSTRUCT	
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$\triangle$ NO	DESCRIPTION	DATE			
	ISSUANCE HISTORY - THIS	SHEET			

HGA NO: 1927-004-00

**ENGINEERING** TITLE SHEET

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT

**BENCHMARKS Elevation** Square Chiseled on the northwesterly corner of the flag pole base at the Perry 902.71 Township Administrative complex. 'X' chiseled on the southerly rim of the sanitary manhole located on the westerly side of Emerald Parkway, approximately 215 feet south of Bright Arrow chiseled on the northerly flange bolt of the fire hydrant on the south side of Bright Road, approximately 430 feet due West of Inverness Court.

\*Elevations are based on NAVD 1988.

CONTROL POINTS					
No.	Northing	Easting	Elevation	Description	
1	769665.120	1803164.730	901.90	5/8"x30" Iron Pin Set	
2	769103.260	1802748.058	904.35	5/8"x30" Iron Pin Set	
3	768955.955	1802236.090	904.89	5/8"x30" Iron Pin Set	
4	769285.373	1801621.270	896.21	5/8"x30" Iron Pin Set	
5	769816.363	1801643.266	892.21	Mag Nail Set	
6	769896.648	1802138.339	899.71	5/8"x30" Iron Pin Set	
7	769717.054	1802607.304	902.44	5/8"x30" Iron Pin Found	
8	770557.161	1801798.106	894.95	Mag Nail Set	
<u> </u>	770593 740	1902527 205	800.33	5/8"v30" Iron Din Sot	

9 | 770583.740 | 1802537.305 | 899.33 | 5/8"x30" Iron Pin Set \*The project is based on State Plane Coordinates Ohio South Zone NAD 83 with 2011 NSRS adjustment. Elevations are based on NAVD 1988.



### **GENERAL NOTES**

- 1. CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.
- 2. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.
- 3. THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.
- 4. THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
- 5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS. PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.
- 6. FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTIONS DRAWINGS.
- 7. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT\_OF\_WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.
- 8. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.
- 9. NON RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.
- 10. 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.
- 11. TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 12. DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.
- 13. ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 14. 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 CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 15. ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.
- 16. 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 ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE II ACCORDING TO ITEM 613. ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.
- 17. THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

SEND THE INFORMATION TO THE FOLLOWING ADDRESS:

CONSTRUCTION INSPECTION DIVISION CITY OF COLUMBUS

1800 EAST 17TH AVENUE COLUMBUS, OHIO 43219

SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:

DIVISION OF ENGINEERING

CITY OF DUBLIN 6555 SHIER RINGS ROAD

DUBLIN, OHIO 43016 18. ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING

HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.

- 19. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 - INCHES OR GREATER AT DBH (DIAMETER BREAST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.
- 20. CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED. CONTROLLED DENSITY BACKFILL (TYPE II) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 613 OF THE STANDARD SPECIFICATIONS.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO
- 22. PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR. A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPLACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.
- 23. TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.
- 24. ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.
- 25. ALL INLETS SHALL BE CHANNELIZED.
- 26. PARK AREAS SHALL BE FINE GRADED AND SEEDED WITH THE FOLLOWING MIXTURE:
  - IMPROVED KENTUCKY BLUEGRASS: 40% OF WEIGHT (2 VARIETIES IN EQUAL PARTS) IMPROVED PERENNIAL RYE: 60% OF WEIGHT (2 VARIETIES IN EQUAL PARTS) GERMINATION RATE: 85%

APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.

- 27. TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE TYPE S WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-41.20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.
- 28. STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.

1. THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:

> AMERICAN ELECTRIC POWER 700 MORRISON ROAD 3RD FLOOR GAHANNA, OHIO 43230 TEL: 614-883-6831 CELL: 614-949-8883 **CONTACT: PAUL PAXTON**

CITY OF DUBLIN

DUBLIN, OH 43016

TEL: 614-410-4740

COLUMBIA GAS

TEL: 614-818-2113

CELL: 614-315-3770

WIDE OPEN WEST

TEL: 614-749-2225

3550 JOHNNY APPLESEED CT

COLUMBUS, OHIO 43231

CONTACT: MATT MYERS

3675 CORPORATE DRIVE

SPECTRUM 3760 INTERCHANGE ROAD COLUMBUS, OHIO 43204 TEL: 614-481-5262 CEL: 614-975-7468 CONTACT: DAVID HOLSTEIN

AT&T (CABLE) 111 N 4TH STEET DIVISION OF ENGINEERING 6555 SHIER RINGS RD SUITE 802 COLUMBUS, OHIO 43215 TEL: 614-223-7162 CONTACT: ROGER MIKESELL

> TEAM FISHEL 1600 WALCUTT RD COLUMBUS, OH 43228 TEL: 614-921-4616 CELL: 614-323-8079 CONTACT: JOE TEPPER AT&T (CONDUIT)

> > 111 N. 4TH STREET

COLUMBUS, OHIO 43228

CONTACT: DEAN PENCE

TEL: 614-274-8100

COLUMBUS, OHIO 43231 SUITE 802 TEL: 614-223-7276 CONTACT: GARY VAN ALMSICK CONTACT: STEVEN CALLAHAN **DUBLIN DEVELOPMENTS** 1810 ARLINGTON LANE

CITY OF COLUMBUS DIVISION OF WATER 910 DUBLIN ROAD 2ND FLOOR COLUMBUS, OHIO 43215 TEL: 614-645-7677

CENTURY LINK 250 W. OLD WILSON BRIDGE, SUITE 130 WORTHINGTON, OH 43085 RELOCATIONS@CENTURYLINK.COM

- 2. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800\_362\_2764), PRODUCER'S UNDERGROUNI PROTECTION SERVICE (TELEPHONE NUMBER 614\_587\_0486), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.
- 3. THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.
- 4. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES. WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.
- 6. PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING

### TRAFFIC CONTROL

WORK.

- 1. TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.
- 2. ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE LANE TWO WAY TRAFFIC. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD, AND SHALL BE PRESENT WHENEVER ONE LANE TWO\_WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.
- 3. IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF\_DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.
- 4. STEADY\_BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.
- 5. ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES. THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

### **EROSION AND SEDIMENT CONTROL**

- 1. THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO OEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITLE COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.
- 2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.
- 3. ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.
- 4. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.
- 5. DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.

### BLASTING (IF PERMITTED)

1. THE CONTRACTOR MUST OBTAIN A BLASTING PERMIT FROM WASHINGTON TOWNSHIP FIRE DEPARTMENT PRIOR TO BLASTING FOR ROCK EXCAVATION. THE CONTRACTOR SHALL SUBMIT BLASTING REPORTS UPON COMPLETION OF BLASTING TO THE CITY ENGINEER, THE OWNER. AND THE OWNER'S ENGINEER. TOP OF ROCK ELEVATIONS SHALL BE SHOWN ON "AS BUILT" CONSTRUCTION DRAWINGS.

### **SANITARY SEWERS**

- 1. CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OEPA PERMIT TO INSTALL (PTI), AND UPON RECEIVING A SATISFACTORY LETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS, AND ALL OF THE CONDITIONS OF THE PTI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED OHIO EPA APPROVALS AND PAYING REVIEW
- 2. SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS OF THE CITY OF DUBLIN, OHIO EPA, OHIO DEPARTMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.
- 3. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 8 INCHES TO 10 INCHES SHALL BE PVC SEWER PIPE ASTM D3034, SDR 35. PIPE FOR 6 INCH DIAMETER HOUSE SERVICE LINES SHALL BE PVC PIPE ASTM D3034, SDR 35. PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATED STRUCTURES SHALL BE SHOP TESTED IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION QUALITY CONTROL REQUIREMENTS.
- 4. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS 12 INCHES TO 30 INCHES SHALL BE PVC SEWER PIPE, ASTM D3034, SDR 35 OR SANITITE HP PIPE, ASTM F2736. SANITARY SEWER PIPES WITH DIAMETERS 30 INCHES TO 60 INCHES SHALL BE PVC SEWER PIPE, ASTM D3034, SDR 35 OR SANITITE HP PIPE, ASTM F2764.
- 5. ALL IN LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18-INCH DIAMETER AND LARGER, SHALL BE EITHER KOR N TEE OR KOR N SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.
- 6. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 613, TYPE II OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
- 7. ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF\_SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR AS APPROVED BY THE CITY ENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.
- 8. ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILLING OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 901.21 OF THE STANDARD SPECIFICATIONS.
- 9. TEMPORARY BULKHEADS SHALL BE PLACED IN PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE PERMIT TO INSTALL (PTI) HAS BEEN ISSUED BY THE OEPA AND THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.
- 10. ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECTED TO AND PASS INFILTRATION OR EXFILTRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE CONNECTIONS ARE TAPPED INTO SEWERS.
- 11. FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.
- 12. AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM A TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.
- 13. VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
- 14. ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED ACCORDING TO SECTION 51.23 OF THE DUBLIN CODE OF ORDINANCES.
- 15. ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY, FROM SANITARY SEWERS AND STORM SEWERS, TO THE GREATEST EXTENT PRACTICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER. THE SANITARY SEWER SHALL BE CONCRETE ENCASED OR
- CONSIST OF DUCTILE IRON PIPE MATERIAL. 16. SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICE IS INTENDED.
- 17. WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5 FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.
- 18. THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE POLES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL WYE LOCATIONS, ENDS OF EXTENDED SERVICES. OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.
- 19. EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. COSTS FOR PUMPING AND BYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE RELATED ITEMS.
- 20. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATERTIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARREL AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN FLEXIBILITY IN THE CONNECTION, A 1\_INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL; THIS SPACE SHALL BE FILLED WITH A WATERPROOF FLEXIBLE JOINT FILLER. ANY METAL THAT IS USED SHALL BE TYPE 300 SERIES STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:
- RUBBER SLEEVE WITH STAINLESS STEEL BANDING. 1) KOR N\_SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS,
- 2) LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION. 3) OR EQUAL AS APPROVED BY THE CITY ENGINEER.

3) LINK\_SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.

4) OR EQUAL AS APPROVED BY THE CITY ENGINEER.

- B. RUBBER GASKET COMPRESSION. 1) PRESS WEDGE II AS MANUFACTURED BY PRESS\_SEAL GASKET CORPORATION. 2) DURA SEAL III AS MANUFACTURED BY DURA TECH, INC.
- THE COST FOR THIS WORK ALONG WITH A NEW CHANNELIZED BASE FOR THE MANHOLE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELATED ITEMS OF

- 1. ALL WATER LINE MATERIALS SHALL BE PROVIDED AND INSTALLED ACCORDING TO CURRENT SPECIFICATIONS OF THE CITY OF COLUMBUS DIVISION OF WATER.
- 2. ALL PUBLIC WATER PIPE WITH A DIAMETER 3 INCHES TO 8 INCHES SHALL BE DUCTILE IRON, CLASS 53. PUBLIC WATER PIPE 12 INCHES IN DIAMETER OR LARGER SHALL BE DUCTILE IRON, CLASS 54. PUBLIC WATER PIPE 20 INCHES IN DIAMETER OR LARGER MAY BE PRESTRESSED CONCRETE PIPE. PRIVATE WATER PIPE SHALL MEET THE APPROVAL OF THE CITY OF COLUMBUS DIVISION OF WATER PRIOR TO APPROVAL OF THE CONSTRUCTION
- 3. ONLY FIRE HYDRANTS CONFORMING TO CITY OF COLUMBUS STANDARDS WILL BE
- 4. PUBLIC WATER LINES SHALL BE DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER. REQUESTS FOR WATER LINE CHLORINATION SHALL BE MADE THROUGH THE CITY OF DUBLIN DIVISION OF ENGINEERING. THE COST FOR CHLORINATION SHALL BE PAID FOR BY THE CONTRACTOR.
- 5. ALL WATER LINES SHALL BE DISINFECTED ACCORDING TO ITEM 801.13 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AMERICAN WATER WORKS ASSOCIATION SPECIFICATION C 651, PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATING VALVES AND FIRE HYDRANTS (SECTION 7). PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHEN WATER LINES ARE READY FOR DISINFECTION, THE CITY OF DUBLIN SHALL SUBMIT TWO (2) SETS OF "AS-BUILT" PLANS, AND A LETTER STATING THAT THE WATER LINES HAVE BEEN PRESSURE TESTED AND NEED TO BE DISINFECTED, TO THE CITY OF COLUMBUS, DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE

- DISINFECTION OF ALL WATER LINES CONSTRUCTION PER THIS PLAN. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL PAINT ALL FIRE HYDRANTS ACCORDING TO CITY OF DUBLIN STANDARDS. THE COST OF PAINTING FIRE HYDRANTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR FIRE HYDRANTS.
- 7. NO WATER TAPS OR SERVICE CONNECTIONS (E.G., TO CURB STOPS OR METER PITS) MAY BE ISSUED UNTIL ADJACENT PUBLIC WATER LINES SERVING THE CONSTRUCTION SITE HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER AND HAVE BEEN ACCEPTED BY THE CITY ENGINEER. A TAP PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE CITY OF DUBLIN AND THE CITY OF COLUMBUS DIVISION OF WATER BEFORE MAKING ANY TAPS INTO PUBLIC WATER LINES.
- 8. THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS DIVISION OF WATER AT 645\_7788 AND THE CITY OF DUBLIN DIVISION OF ENGINEERING AT LEAST 24 HOURS BEFORE TAPPING INTO EXISTING WATER LINES.
- ALL WATER MAIN STATIONING SHALL BE BASED ON STREET CENTERLINE STATIONING.
- 10. ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE PER

CITY OF COLUMBUS STANDARDS.

- 11. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 1 WORKING DAY BUT NOT MORE THAN 3 WORKING DAYS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE MINIMIZED AND MUST BE APPROVED BY THE CITY ENGINEER.
- 12. WATER METERS SHALL BE INSTALLED INSIDE PROPOSED STRUCTURES UNLESS A METER PIT INSTALLATION IS APPROVED BY THE CITY OF COLUMBUS DIVISION OF WATER. METER PITS MUST CONFORM TO STANDARD DRAWINGS L-7103, A&B FOR 5/8" THROUGH 1" METERS OR L-6317, A, B, C&D FOR 1-1/2" OR LARGER METERS.
- 13. WATER LINES TO BE INSTALLED IN EMBANKMENT AREAS SHALL BE PLACED AFTER THE EMBANKMENT HAS BEEN PLACED AND COMPACTED ACCORDING TO THE STANDARD SPECIFICATIONS.
- 14. CURB STOP BOXES SHALL BE LOCATED AT LEAST 1 FOOT INSIDE THE RIGHT\_OF\_WAY AND SET AT FINISHED GRADE. 15. IF THE TOP OF THE OPERATING NUT OF ANY VALVE IS GREATER THAN 36 INCHES BELOW
- FINISHED GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO WITHIN 24 INCHES OF FINISHED GRADE ELEVATION. 16. ALL WATER LINES SHALL BE PLACED AT A MINIMUM DEPTH OF 4 FEET MEASURED FROM TOP OF FINISHED GRADE TO TOP OF WATER LINE. WATER LINES SHALL BE SET DEEPER AT

ALL POINTS WHERE NECESSARY TO CLEAR EXISTING OR PROPOSED UTILITY LINES OR

17. TWO ¾ INCH TAPS SHALL BE INSTALLED WITHIN 2 FEET OF THE END OF THE LINE ON ALL DEAD-END WATER LINES.

OTHER UNDERGROUND RESTRICTIONS BY A MINIMUM OF 18 INCHES.

### STORM SEWER

- 1. ALL STORM WATER DETENTION AND RETENTION AREAS AND MAJOR FLOOD ROUTING SWALES SHALL BE CONSTRUCTED TO FINISH GRADE AND HYDRO SEEDED AND HYDRO MULCHED ACCORDING TO ITEMS 203 AND 659 OF THE STANDARD SPECIFICATIONS.
- WHERE PRIVATE STORM SEWERS CONNECT TO PUBLIC STORM SEWERS, THE LAST RUN OF PRIVATE STORM SEWER CONNECTING TO THE PUBLIC STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. INSPECTION IS REQUIRED BY THE CITY OF DUBLIN'S DIVISION OF ENGINEERING.
- 3. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 613, TYPE II OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
- 4. ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.

5. HEADWALLS SHALL BE REQUIRED AT ALL STORM SEWER INLETS OR OUTLETS TO AND

- FROM STORMWATER MANAGEMENT FACILITIES. NATURAL STONE AND/OR BRICK APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED ON ALL VISIBLE HEADWALLS 6. STORM INLETS OR CATCH BASINS SHALL BE CHANNELIZED AND HAVE BICYCLE SAFE
- CATCH BASIN GRATES SHALL INDLUCE ENGRAVED LETTERING: "DUMP NO WASTE; DRAINS 7. STORM SEWER OUTLETS GREATER THAN 18 INCHES IN DIAMETER ACCESSIBLE FROM

GRATES. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO AND ALL CURB INLET AND

STORMWATER MANAGEMENT FACILITIES OR WATERCOURSES SHALL BE PROVIDED WITH

SAFETY GRATES, AS APPROVED BY THE CITY ENGINEER. 8. HP STORM AND HP SANITITE OR APPROVED EQUAL ARE APPROVED ALTERNATIVES TO REINFORCED CONCRETE PIPE IN PAVED AND NON PAVED AREAS AS APPROVED BY THE

CITY ENGINEER. THIS INCLUDES APPLICATIONS INSIDE THE RIGHT-OF-WAY.

- HP STORM AND HP SANITITE OR APPROVED EQUAL PIPE JOINTS SHALL BE WATERTIGHT ACCORDING TO REQUIREMENTS OF ASTM D3212. PIPES SHALL BE JOINED WITH A GASKETED INTEGRAL BELL & SPIGOT JOINT MEETING THE REQUIREMENTS OF ASTM F2881 (HP STORM) AND ASTM F2764 (HP SANITITE). GASKETS SHALL BE INSTALLED BY PIPE MANUFACTURER AND COVERED WITH REMOVABLE, PROTECTIVE WRAP TO ENSURE THE GASKET IS FREE FROM DEBRIS. A JOINT LUBRICANT AVAILABLE FROM THE MANUFACTURER SHALL BE USED ON THE GASKET AND BELL DURING JOINT ASSEMBLY.
- 10. ALL BEDDING MATERIAL SHALL BE IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S149.
- 11. BACKFILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH ITEM 911 OR ITEM 912 OF THE CITY OF COLUMBUS CONSTRUCTION MATERIAL SPECIFICATIONS (CMS).
- 12. BACKFILL MATERIAL IN AREAS LOCATED OUTSIDE THE PUBLIC RIGHT-OF-WAY SHALL BE PLACED IN ACCORDANCE WITH ITEM 901 OF THE CITY OF COLUMBUS (CMS).
- 13. ALL HP STORM AND HP SANITITE PIPE (FOR STORM SEWER) SHALL BE MANDREL TESTED IN ACCORDANCE WITH CITY OF COLUMBUS ITEM 901.21, WITH THE EXCEPTION THAT THE WAITING PERIOD PRIOR TO TESTING SHALL BE 30 DAYS.

### MAIL DELIVERY

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.
- BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.

### **USE OF FIRE HYDRANTS**

- 1. THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRANT USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS. THE CONTRACTOR SHALL ALSO SEND A COPIES OF PERMITS OBTAINED FROM DUBLIN AND COLUMBUS TO THE WASHINGTON AND/OR PERRY TOWNSHIP FIRE DEPARTMENT. PERMITS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
- 2. BEFORE THE FINAL ESTIMATE IS PAID, THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE CITY OF COLUMBUS DIVISION OF WATER TO THE CITY ENGINEER STATING THAT THE CONTRACTOR HAS RETURNED THE SIAMESE VALVE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.

333 East Erie Street Milwaukee, Wisconsin 53202 Telephone 414.278.8200

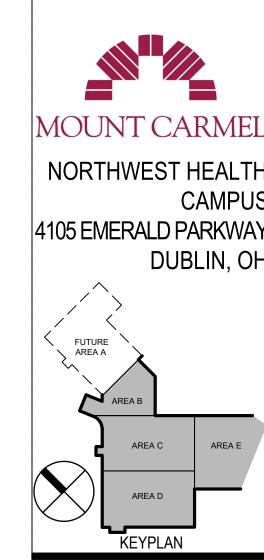
KORDA/NEMETH ENGINEERIN CIVIL/MECHANICAL/ELECTRICAL PLUMBING/STRUCTURAL **TECHNOLOGY ENGINEER** 

> 1650 WATERMARK DRIVE COLMBUS, OH 43215 614.487.1650



**462 SOUTH LUDLOW ALLEY** COLUMBUS, OH 43215 614.621.2796

**MOUNT CARMEL** 



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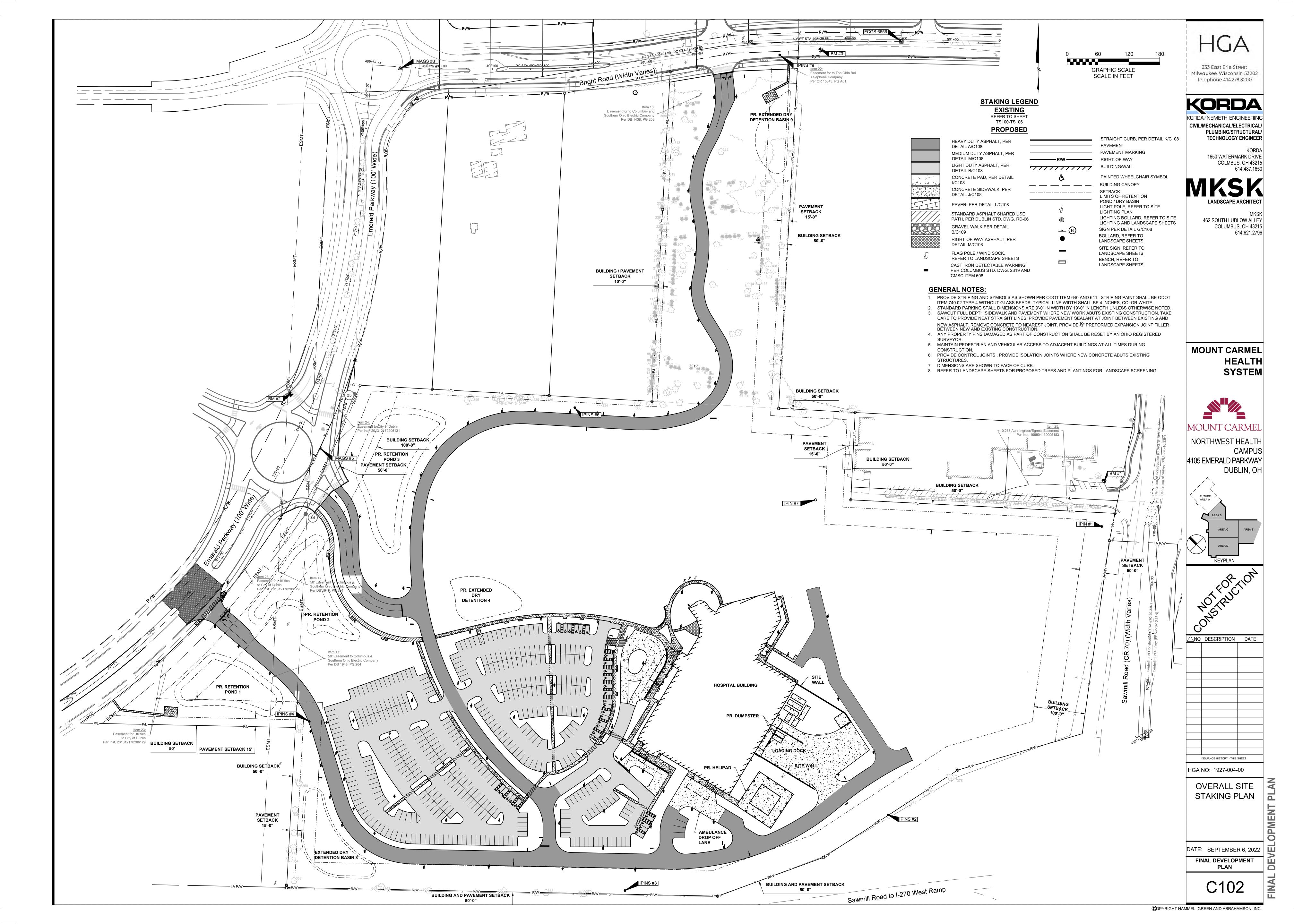
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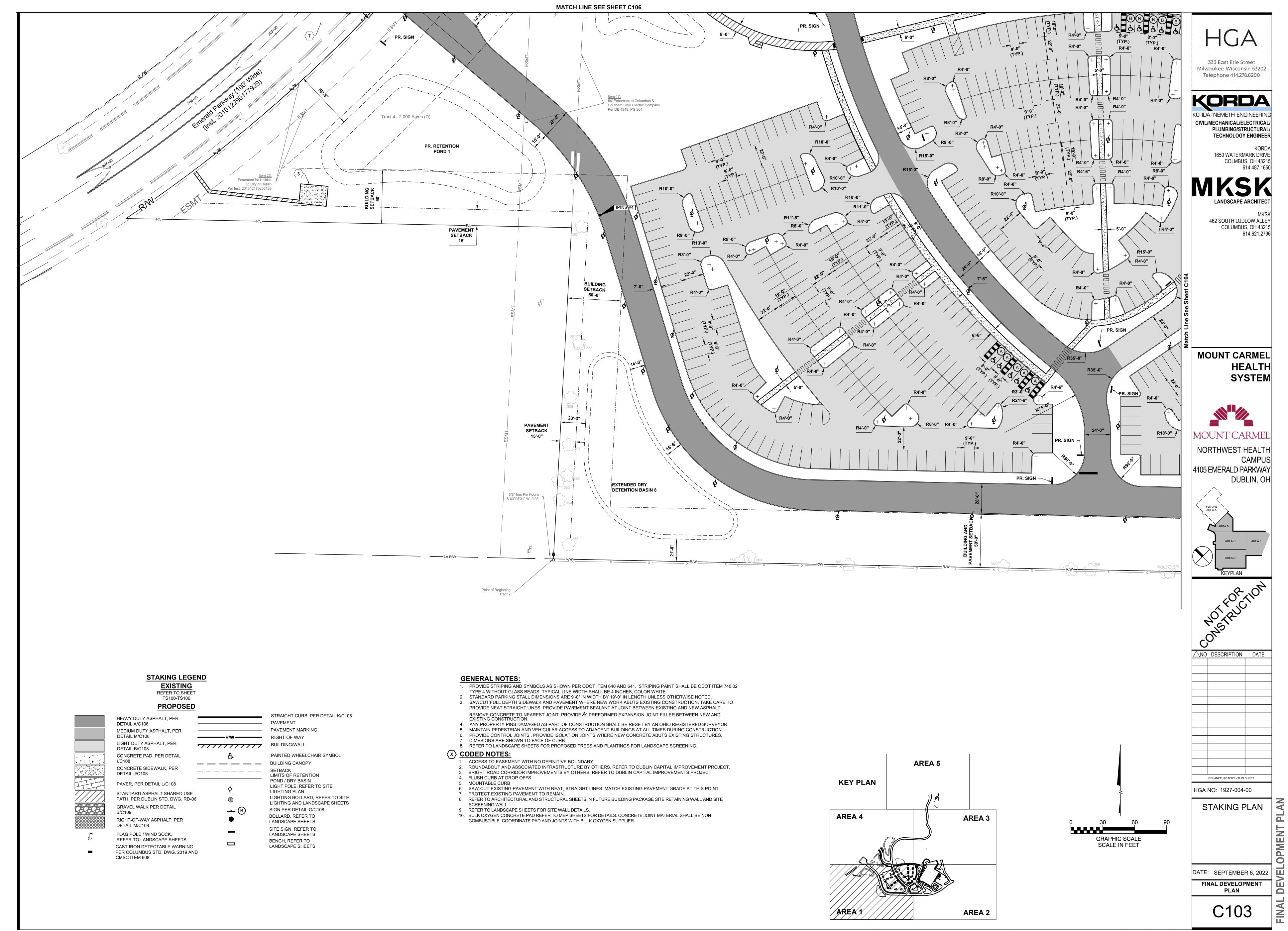
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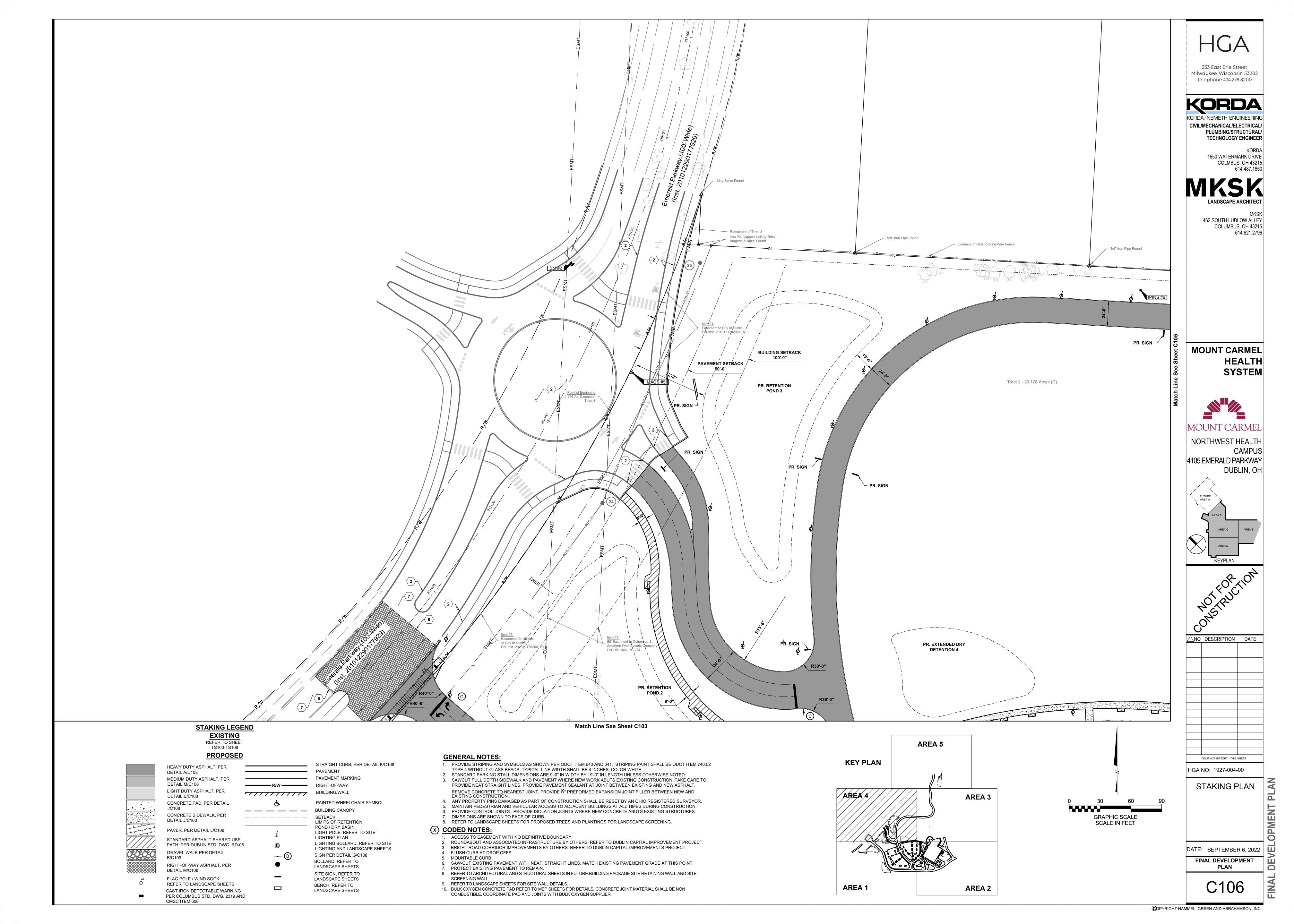
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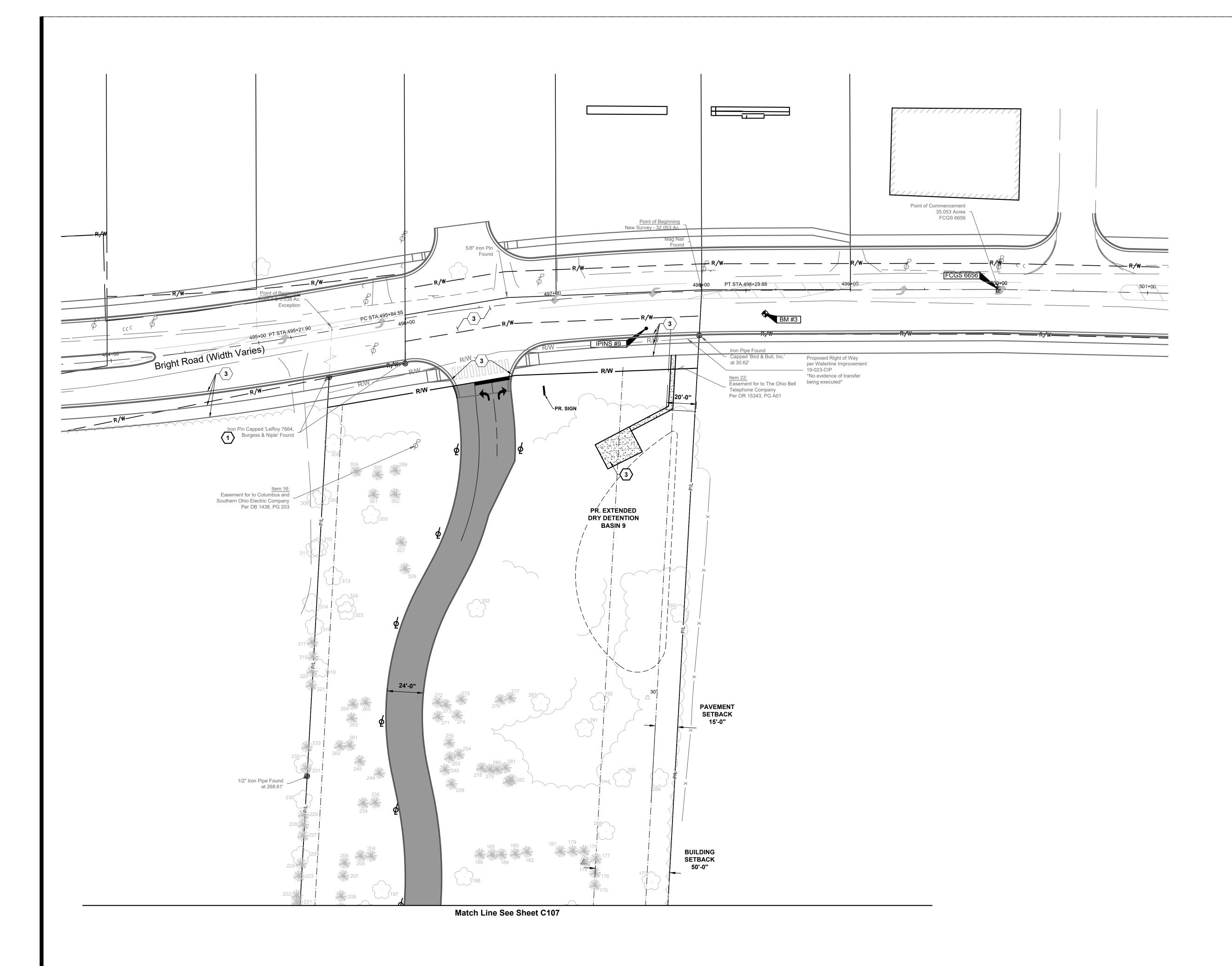
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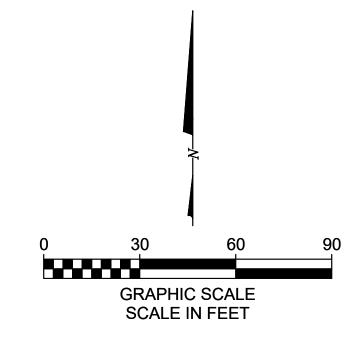
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### **STAKING LEGEND EXISTING** REFER TO SHEET TS100-TS106

### PROPOSED

HEAVY DUTY ASPHALT, PER DETAIL A/C108 MEDIUM DUTY ASPHALT, PER DETAIL M/C108 LIGHT DUTY ASPHALT, PER DETAIL B/C108 CONCRETE PAD, PER DETAIL CONCRETE SIDEWALK, PER \_\_.\_. SETBACK DETAIL J/C108 PAVER, PER DETAIL L/C108 STANDARD ASPHALT SHARED USE PATH, PER DUBLIN STD. DWG. RD-06

B/C109 RIGHT-OF-WAY ASPHALT, PER DETAIL M/C108 FLAG POLE / WIND SOCK, REFER TO LANDSCAPE SHEETS CAST IRON DETECTABLE WARNING PER COLUMBUS STD. DWG. 2319 AND

CMSC ITEM 608

GRAVEL WALK PER DETAIL

PAVEMENT MARKING RIGHT-OF-WAY BUILDING/WALL PAINTED WHEELCHAIR SYMBOL **BUILDING CANOPY** 

PAVEMENT

STRAIGHT CURB, PER DETAIL K/C108

LIMITS OF RETENTION POND / DRY BASIN LIGHT POLE, REFER TO SITE LIGHTING PLAN LIGHTING BOLLARD, REFER TO SITE LIGHTING AND LANDSCAPE SHEETS SIGN PER DETAIL G/C108 BOLLARD, REFER TO LANDSCAPE SHEETS SITE SIGN, REFER TO LANDSCAPE SHEETS BENCH, REFER TO

LANDSCAPE SHEETS

**GENERAL NOTES:** 

- 1. PROVIDE STRIPING AND SYMBOLS AS SHOWN PER ODOT ITEM 640 AND 641. STRIPING PAINT SHALL BE ODOT ITEM 740.02 TYPE 4 WITHOUT GLASS BEADS. TYPICAL LINE WIDTH SHALL BE 4 INCHES, COLOR WHITE. 2. STANDARD PARKING STALL DIMENSIONS ARE 9'-0" IN WIDTH BY 19'-0" IN LENGTH UNLESS OTHERWISE NOTED.
- 3. SAWCUT FULL DEPTH SIDEWALK AND PAVEMENT WHERE NEW WORK ABUTS EXISTING CONSTRUCTION. TAKE CARE TO PROVIDE NEAT STRAIGHT LINES. PROVIDE PAVEMENT SEALANT AT JOINT BETWEEN EXISTING AND NEW ASPHALT. REMOVE CONCRETE TO NEAREST JOINT. PROVIDE  $\frac{1}{2}$ " PREFORMED EXPANSION JOINT FILLER BETWEEN NEW AND EXISTING CONSTRUCTION. 4. ANY PROPERTY PINS DAMAGED AS PART OF CONSTRUCTION SHALL BE RESET BY AN OHIO REGISTERED SURVEYOR.
- 5. MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ADJACENT BUILDINGS AT ALL TIMES DURING CONSTRUCTION. 6. PROVIDE CONTROL JOINTS . PROVIDE ISOLATION JOINTS WHERE NEW CONCRETE ABUTS EXISTING STRUCTURES.
- 7. DIMESIONS ARE SHOWN TO FACE OF CURB. 8. REFER TO LANDSCAPE SHEETS FOR PROPOSED TREES AND PLANTINGS FOR LANDSCAPE SCREENING.

**(X)** CODED NOTES:

- ACCESS TO EASEMENT WITH NO DEFINITIVE BOUNDARY.
- ROUNDABOUT AND ASSOCIATED INFRASTRUCTURE BY OTHERS. REFER TO DUBLIN CAPITAL IMPROVEMENT PROJECT. 3. BRIGHT ROAD CORRIDOR IMPROVEMENTS BY OTHERS. REFER TO DUBLIN CAPITAL IMPROVEMENTS PROJECT. 4. FLUSH CURB AT DROP OFFS
- MOUNTABLE CURB 6. SAW-CUT EXISTING PAVEMENT WITH NEAT, STRAIGHT LINES. MATCH EXISTING PAVEMENT GRADE AT THIS POINT.
- 7. PROTECT EXISTING PAVEMENT TO REMAIN. 8. REFER TO ARCHITECTURAL AND STRUCTURAL SHEETS IN FUTURE BUILDING PACKAGE SITE RETAINING WALL AND SITE SCREENING WALL.
- 9. REFER TO LANDSCAPE SHEETS FOR SITE WALL DETAILS. 10. BULK OXYGEN CONCRETE PAD REFER TO MEP SHEETS FOR DETAILS. CONCRETE JOINT MATERIAL SHALL BE NON COMBUSTIBLE. COORDINATE PAD AND JOINTS WITH BULK OXYGEN SUPPLIER.

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CIVIL/MECHANICAL/ELECTRICAL

PLUMBING/STRUCTURAL/ TECHNOLOGY ENGINEER

1650 WATERMARK DRIVE

462 SOUTH LUDLOW ALLEY

**MOUNT CARMEL** 

NORTHWEST HEALTH

4105 EMERALD PARKWAY

**HEALTH** 

**SYSTEM** 

DUBLIN, OH

COLUMBUS, OH 43215

614.621.2796

COLMBUS, OH 43215

614.487.1650

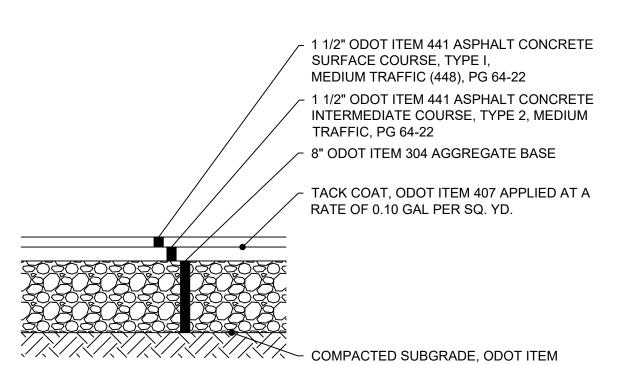
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ISSUANCE HISTORY - THIS SHEET

STAKING PLAN

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT

**KEY PLAN** AREA 4 AREA 3 AREA 1 AREA 2



1. COMPOSE HOT MIX ASPHALT MIXTURE WITH AGGREGATE AND ASPHALT BINDER MEETING ODOT REQUIREMENTS.

- 2. SUBMIT AN APPROVED JOB MIX FORMULA INCLUDING MIX TYPE PROPOSED FOR USE, AGGREGATE SOURCE, TYPE, AND GRADATION, PERCENT OF ASPHALT BINDER, AND UNIT WEIGHT OF THE
- CONTRACT AN INDEPENDENT TESTING AGENCY TO PROVIDE TESTING AND WRITTEN APPROVAL OF THE FORMULA. THE AGENCY PERFORMING THE TESTING MUST BE LEVEL III BITUMINOUS CONCRETE APPROVED BY ODOT.
- PROVIDE QUALITY ASSURANCE TESTING IN ACCORDANCE WITH ODOT ITEM 448 AND SUPPLEMENTAL SPECIFICATION 1055, THE AGENCY PERFORMING THE TESTING MUST HAVE A CURRENT LEVEL I BITUMINOUS CONCRETE APPROVAL FROM ODOT.
- PROVIDE COMPACTION RANGING FROM 90 TO 97.9% OF THE AVERAGE MAXIMUM SPECIFIC GRAVITY FOR SURFACE COURSE AND 90 TO 96.9% FOR INTERMEDIATE COURSE. REMOVE AND REPLACE MATERIAL PLACED OUTSIDE OF SAID RANGES. PROVIDE REPLACEMENT PAVEMENT AND QUALITY ASSURANCE TESTING AT NO ADDITIONAL COST TO THE OWNER.

HEAVY DUTY ASPHALT PAVEMEN

N.T.S.

- STRUCTURE OR FIXED OBJECT. JOINT SEALANT — 1/2" WIDE PRE-FORMED JOINT FILLER. TOOLED EDGE PROVIDE 3/8" REMOVABLE JOINT CAP PER SPECIFICATION SECTION 32 13 00 CONCRETE SLAB AGGREGATE BASE

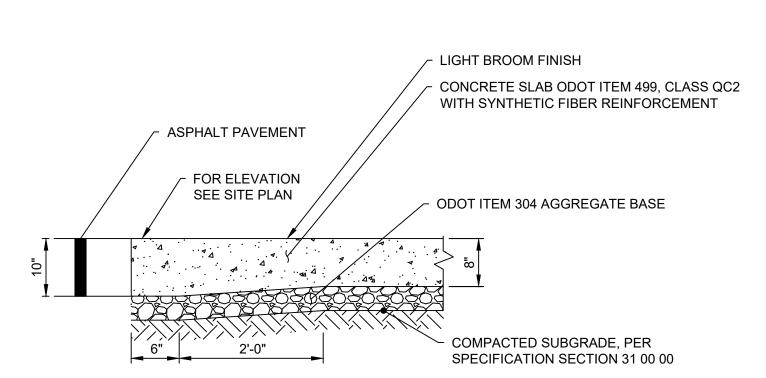
1. PLACE ISOLATION JOINTS WHERE NEW CONCRETE SLAB ABUTS STRUCTURES OR FIXED OBJECTS INCLUDING: BUILDINGS, WALLS, COLUMNS, POLE BASES, CURBS, CATCH BASINS, EXISTING CONCRETE, OR AS NOTED ON THE STAKING PLAN.

**COMPACTED SUBGRADE** 

- 2. PROVIDE AT FORMED EDGE OF PREVIOUSLY POURED SLABS. SEAL JOINT WITH JOINT SEALANT, SEE SPECIFICATION SECTION 32 13 00. 3. SUBMIT SAMPLE FOR COLOR APPROVAL. PRE-FORMED JOINT FILLER -
- NON-IMPREGNATED TYPE, CLOSED CELL RESILIENT POLYETHYLENE FOAM, 1/2" THICK UNLESS OTHERWISE NOTED, CERAMAR FLEXIBLE FOAM EXPANSION JOINT BY W.R. MEADOWS OR EQUAL MEETING THE REQUIREMENTS OF ASTM D 1752 SECTIONS 5.1 THROUGH 5.4. REFER TO SPECIFICATION SECTION 32 13 00.

(E) DETAIL CONCRETE ISOLATION JOINT

N.T.S.



PROVIDE JOINTS AS INDICATED ON DRAWINGS. IN ABSENCE OF INFORMATION ON THE DRAWINGS,

- LOCATE AS SPECIFIED IN SECTION 32 13 00. PROVIDE CONTROL AND ISOLATION JOINTS PER DETAILS, THIS SHEET. SYNTHETIC FIBER REINFORCEMENT: ASTMC1116/C1116M-10A(2015). ACCEPTABLE PRODUCTS OR
  - A. NYCON RC OR PROCON-M POLYPROPYLENE FIBER NYLON FIBERS BY NYCON. B. NYLO-MONO NYLON FIBERS OR MIGHTY-MONO POLYPROPYLENE FIBERS BY FORTA C. FIBERMESH 150 POLYPROPYLENE FIBERS BY PROPEX.
- D. SINTA F19 OR SINTA M2219 BY GCP APPLIED TECHNOLOGIES E. PSI FIBERSTRAND 150 BY EUCLID. SYNTHETIC FIBER REINFORCEMENT SHALL BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DOSAGE RATE SHALL BE AS RECOMMENDED BY THE
- MANUFACTURER, BUT NOT LESS THAN 1 POUND PER CUBIC YARD. DISSIPATING CURING COMPOUND: COMPLY WITH ASTM C309-98A, TYPE 1, CLASS B (CLEAR), EXCEPT MOISTURE LOSS NOT TO EXCEED 0.40 KG/SQ M. IN 72 HOURS. COMPOUND SHALL COMPLY WITH EPA'S VOC REQUIREMENTS. APPLY AT THE MANUFACTURER'S WRITTEN RECOMMENDED APPLICATION RATE.
- COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLICATION OF PENETRATING SEALER. PENETRATING SEALER: ACCEPTABLE PRODUCTS OR APPROVED EQUAL: A. L&M CONSTRUCTION CHEMICALS - AQUAPEL PLUS 40 B. PROSOCO - SALTGUARD WB

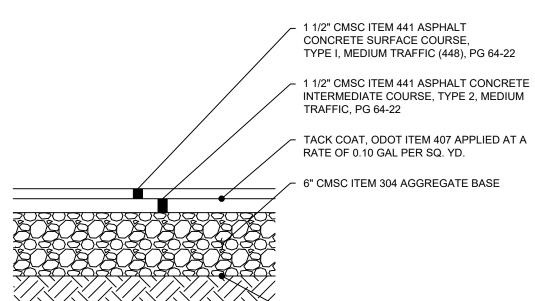
SEALER. IF SCHEDULE DOES NOT ALLOW FOR APPLICATION OF SEALER, PROVIDE CREDIT FOR

- C. HULS AMERICA INC. CHEM-TRETE BSM 40
- D. MASTER BUILDERS INC. MASTERSEAL SL 40 E. LYMTAL INTERNATIONAL - ISO-FLEX 618-50 WB
- F. BASF ENVIROSEAL 40 OR HYDROZO SILANE 40 G. TEX-COTE - RAINSTOPPER RS140 IF CONCRETE INSTALLED OCTOBER-MARCH, WAIT UNTIL APRIL-SEPTEMBER TO APPLY PENETRATING

DETAIL HEAVY DUTY CONCRETE SLAB

DETAIL LIGHT DUTY CONCRETE SIDEWALK

N.T.S.



COMPACTED SUBGRADE, PER SPECIFICATION SECTION 31 00 00

- 1. COMPOSE HOT MIX ASPHALT MIXTURE WITH AGGREGATE AND ASPHALT BINDER MEETING ODOT REQUIREMENTS. 2. SUBMIT AN APPROVED JOB MIX FORMULA INCLUDING MIX TYPE PROPOSED FOR USE, AGGREGATE
- SOURCE, TYPE, AND GRADATION, PERCENT OF ASPHALT BINDER, AND UNIT WEIGHT OF THE 3. CONTRACT AN INDEPENDENT TESTING AGENCY TO PROVIDE TESTING AND WRITTEN APPROVAL OF THE FORMULA. THE AGENCY PERFORMING THE TESTING MUST BE LEVEL III BITUMINOUS
- CONCRETE APPROVED BY ODOT. 4. PROVIDE QUALITY ASSURANCE TESTING IN ACCORDANCE WITH ODOT ITEM 441 AND SUPPLEMENTAL SPECIFICATION 1055, THE AGENCY PERFORMING THE TESTING MUST HAVE A
- CURRENT LEVEL I BITUMINOUS CONCRETE APPROVAL FROM ODOT. 5. PROVIDE COMPACTION RANGING FROM 90 TO 97.9% OF THE AVERAGE MAXIMUM SPECIFIC GRAVITY FOR SURFACE COURSE AND 90 TO 96.9% FOR INTERMEDIATE COURSE. REMOVE AND REPLACE MATERIAL PLACED OUTSIDE OF SAID RANGES. PROVIDE REPLACEMENT PAVEMENT AND QUALITY ASSURANCE TESTING AT NO ADDITIONAL COST TO THE OWNER.

N.T.S.

- CONCRETE SLAB

1. PLACE CONTROL JOINTS WITHIN 8 HOURS OF CONCRETE PLACEMENT AND AT

A. SPACING (IN FEET) SHALL BE BETWEEN 2 TO 2-1/2 TIMES SLAB

STAKING PLAN, PROVIDE AT LOCATIONS INDICATED BELOW:

SAW CUT CONCRETE CONTROL JOINT-

LONGITUDINAL OR TRANSVERSE

SPACING OF 8-10 FEET).

**DETAIL** 

LOCATIONS INDICATED ON THE STAKING PLAN. IF JOINTS ARE NOT SHOWN ON

B. GRID OF CONTROL JOINTS SHALL BE APPROXIMATELY SQUARE WITH

4 FOOT WIDE WALK SHALL HAVE JOINT SPACING AT 4-6 FEET).

<del>--||-----</del> 1/8" WIDE

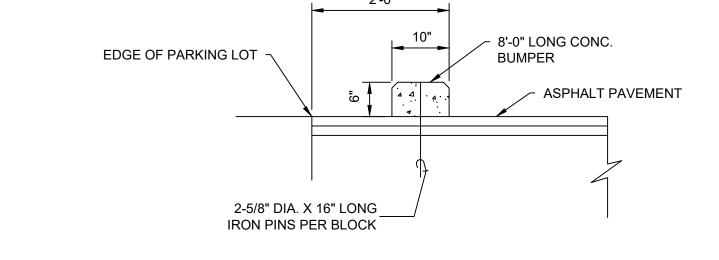
D/4 MINIMUM DEPTH

AGGREGATE BASE

THICKNESS (IN INCHES IN BOTH DIRECTIONS (I.E. 4" SLAB SHALL HAVE JOINT

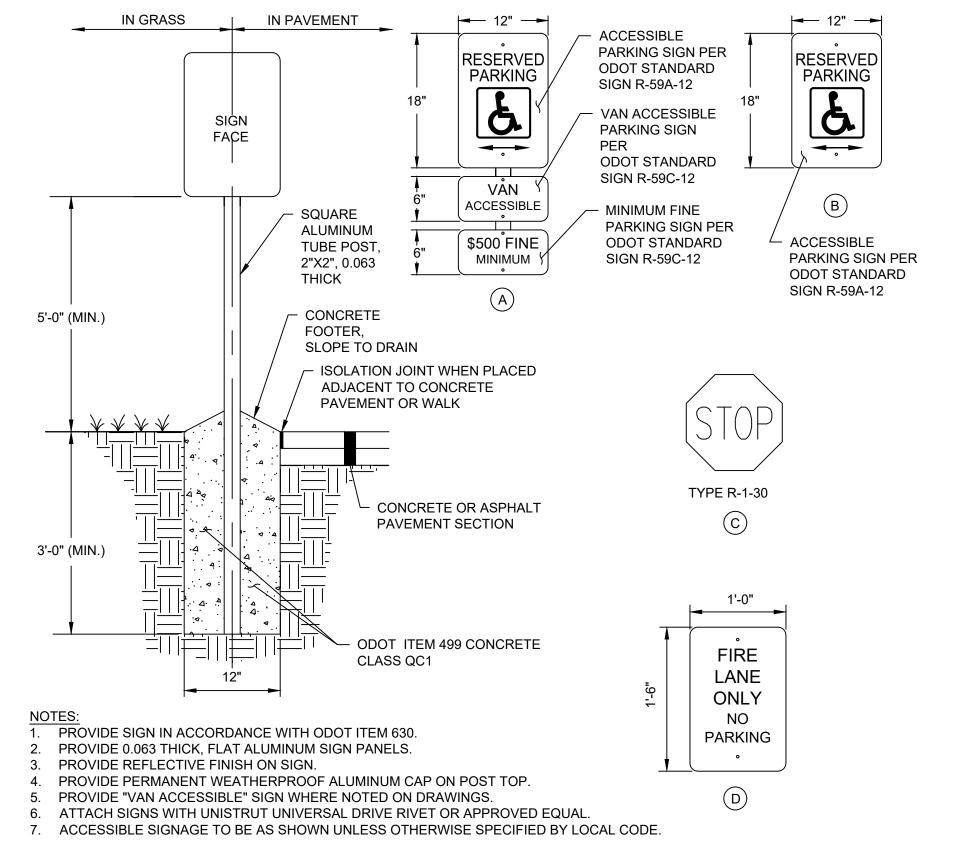
LONGEST SIDE TO BE NOT LONGER THAN 1.5 TIMES THE SHORTEST SIDE (I.E.

- COMPACTED SUBGRADE

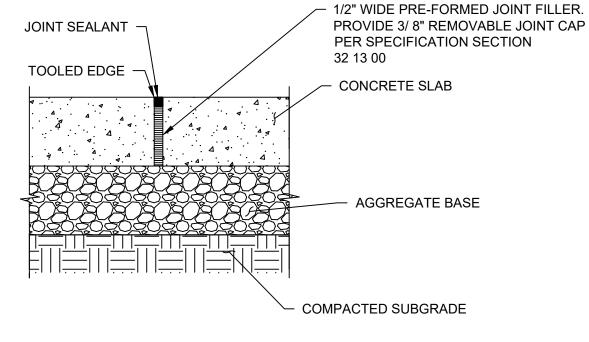


**DETAIL BUMPER BLOCK** 

N.T.S.



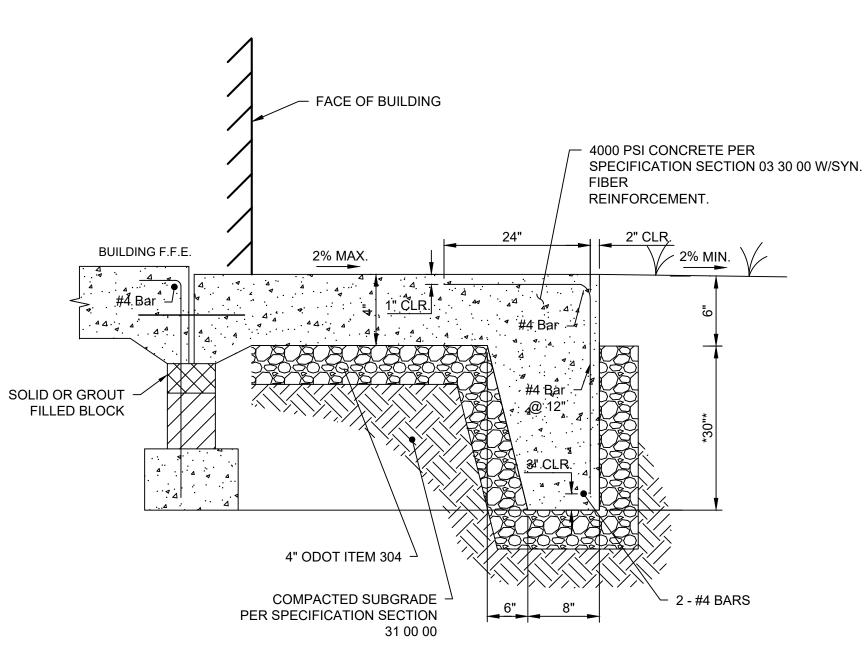
**DETAIL** N.T.S.



1. PROVIDE WHEN SPECIFICALLY SHOWN ON THE DRAWINGS OR WHEN PLACING CONCRETE DURING TEMPERATURES LESS THAN 40°F. REFER TO SPECIFICATION SECTION 32 13 00 FOR

2. SEAL JOINT WITH JOINT SEALANT, SEE SPECIFICATION SECTION 32 13 00. 3. SUBMIT SAMPLE FOR COLOR APPROVAL. PRE-FORMED JOINT FILLER - NON-IMPREGNATED TYPE, CLOSED CELL RESILIENT POLYETHYLENE FOAM, 1/2" THICK UNLESS OTHERWISE NOTED, CERAMAR FLEXIBLE FOAM EXPANSION JOINT BY W.R. MEADOWS OR EQUAL MEETING THE REQUIREMENTS OF ASTM D 1752 SECTIONS 5.1 THROUGH 5.4. REFER TO SPECIFICATION SECTION 32 13 00.

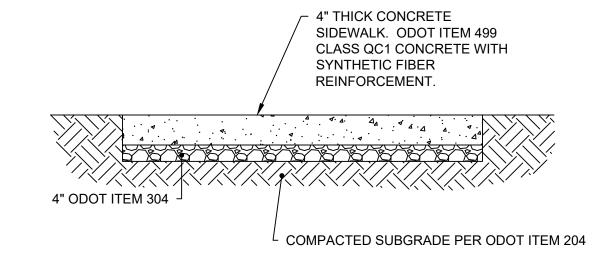
**CONCRETE EXPANSION JOINT** N.T.S.



1. TOP OF SLAB AT BUILDING SHALL BE 0.1 FEET LOWER THAN BUILDING FINISH FLOOR ELEVATION.

**DETAIL** 

(H) FROST SLAB N.T.S.

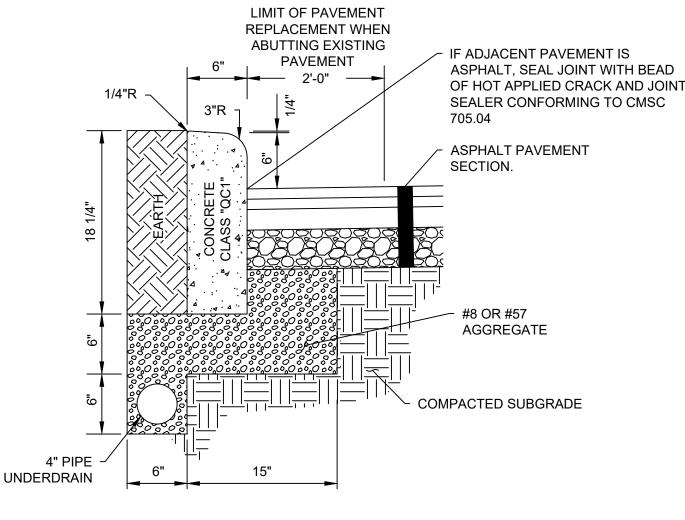


A. SYNTHETIC FIBER REINFORCEMENT: ASTM C1116-97 AND ASTM C1018-97. ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED: 1. NYCON NYLON FIBERS

- 2. FORTA NYLO-MONO NYLON FIBERS 3. FIBERMESH FIBERMIX STEALTH POLYPROPYLENE FIBERS 4. GRACE POLYPROPYLENE FIBERS
- SYNTHETIC FIBER REINFORCEMENT SHALL BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DOSAGE RATE SHALL BE AS RECOMMENDED BY THE MANUFACTURER, BUT NOT LESS THAN 1 POUND PER CUBIC YARD. B. DISSIPATING CURING COMPOUND: COMPLY WITH ASTM C309-98A, TYPE 1, CLASS B (CLEAR), EXCEPT MOISTURE LOSS NOT TO EXCEED 0.40 KG/SQ M. IN 72 HOURS. COMPOUND SHALL COMPLY WITH EPA'S VOC REQUIREMENTS. APPLY AT THE MANUFACTURER'S WRITTEN
- RECOMMENDED APPLICATION RATE. COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLICATION OF PENETRATING SEALER. C. PENETRATING SEALER: ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO: 1. L&M CONSTRUCTION CHEMICALS - AQUAPEL PLUS 40
- 2. PROSOCO SALTGUARD WB 3. HULS AMERICA INC. - CHEM-TRETE BSM 40 4. MASTER BUILDERS INC. - MASTERSEAL SL 40 5. LYMTAL INTERNATIONAL - ISO-FLEX 618-50 WB 6. BASF - ENVIROSEAL 40 OR HYDROZO SILANE 40 7. TEX-COTE - RAINSTOPPER RS140

N.T.S.

N.T.S.

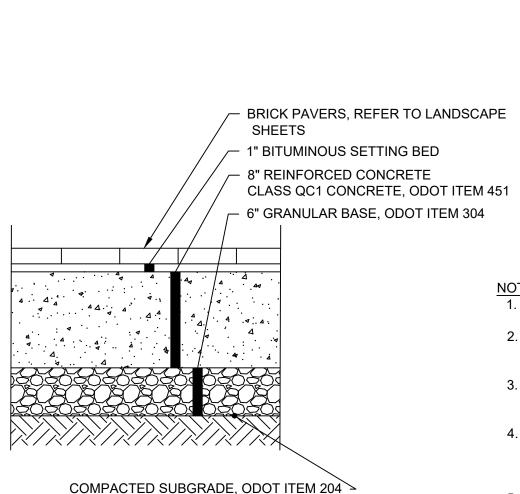


ALL EXPOSED SURFACES OF CONCRETE CURB TO BE FLOATED AND BRUSH FINISHED, UNLESS PLACED BY A CURB MACHINE.

2. PROVIDE JOINTS PER SPECIFICATION SECTION 32 13 00.

DETAIL

**DETAIL** STRAIGHT 18" CONCRETE CURB WITH UNDERDRAIN PAVERS - VEHICULAR TRAFFIC N.T.S. N.T.S.



SPECIFICATION SECTION 31 00 00 COMPOSE HOT MIX ASPHALT MIXTURE WITH AGGREGATE AND ASPHALT BINDER MEETING ODOT REQUIREMENTS. 2. SUBMIT AN APPROVED JOB MIX FORMULA INCLUDING MIX TYPE PROPOSED FOR USE, AGGREGATE SOURCE, TYPE, AND GRADATION, PERCENT OF ASPHALT BINDER, AND UNIT WEIGHT OF THE MIXTURE.

- 1 1/2" CMSC ITEM 441 ASPHALT

TRAFFIC, PG 64-22

CONCRETE SURFACE COURSE,

RATE OF 0.10 GAL PER SQ. YD.

COMPACTED SUBGRADE, PER

7" CMSC ITEM 304 AGGREGATE BASE

TYPE I, MEDIUM TRAFFIC (448), PG 64-22

- 1 1/2" CMSC ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, MEDIUM

TACK COAT, ODOT ITEM 407 APPLIED AT A

3. CONTRACT AN INDEPENDENT TESTING AGENCY TO PROVIDE TESTING AND WRITTEN APPROVAL OF THE FORMULA. THE AGENCY PERFORMING THE TESTING MUST BE LEVEL III BITUMINOUS CONCRETE APPROVED BY ODOT. 4. PROVIDE QUALITY ASSURANCE TESTING IN ACCORDANCE WITH ODOT ITEM 441 AND SUPPLEMENTAL SPECIFICATION 1055, THE AGENCY PERFORMING THE TESTING MUST HAVE A CURRENT LEVEL I BITUMINOUS CONCRETE APPROVAL FROM 5. PROVIDE COMPACTION RANGING FROM 90 TO 97.9% OF THE AVERAGE MAXIMUM

SPECIFIC GRAVITY FOR SURFACE COURSE AND 90 TO 96.9% FOR INTERMEDIATE COURSE. REMOVE AND REPLACE MATERIAL PLACED OUTSIDE OF SAID RANGES. PROVIDE REPLACEMENT PAVEMENT AND QUALITY ASSURANCE TESTING AT NO ADDITIONAL COST TO THE OWNER.

DETAIL MEDIUM DUTY ASPHALT PAVEMENT

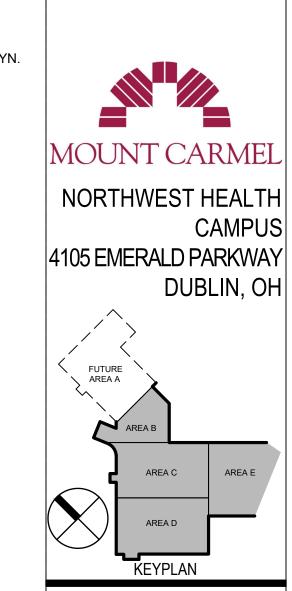
333 East Erie Street Milwaukee, Wisconsin 53202 Telephone 414.278.8200

KORDA/NEMETH ENGINEERIN CIVIL/MECHANICAL/ELECTRICAL PLUMBING/STRUCTURAL TECHNOLOGY ENGINEER

> 1650 WATERMARK DRIVE COLMBUS, OH 43215 614.487.1650

**462 SOUTH LUDLOW ALLEY** COLUMBUS, OH 43215 614.621.2796

**MOUNT CARMEL HEALTH** SYSTEM



NO DESCRIPTION DATE ISSUANCE HISTORY - THIS SHEET

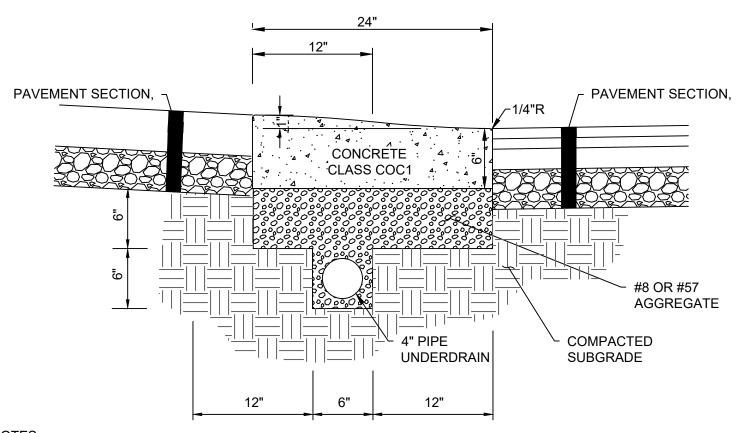
STAKING DETAILS

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT

**PLAN** 

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N.T.S.

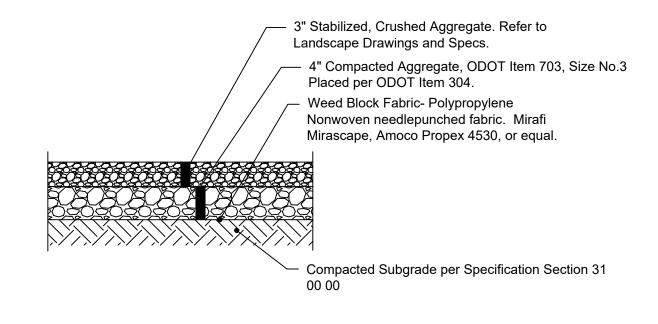


NOTES:

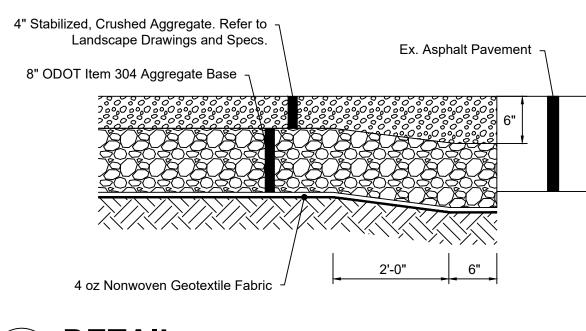
1. CURB & GUTTER SHALL CONFORM TO CMSC ITEM 609. 2. ALL EXPOSED SURFACES OF CONCRETE CURB TO BE FLOATED AND BRUSH FINISHED, UNLESS PLACED BY A CURB MACHINE.

3. PROVIDE JOINTS PER STD. DWG. 2170

DETAIL MOUNTABLE CURB

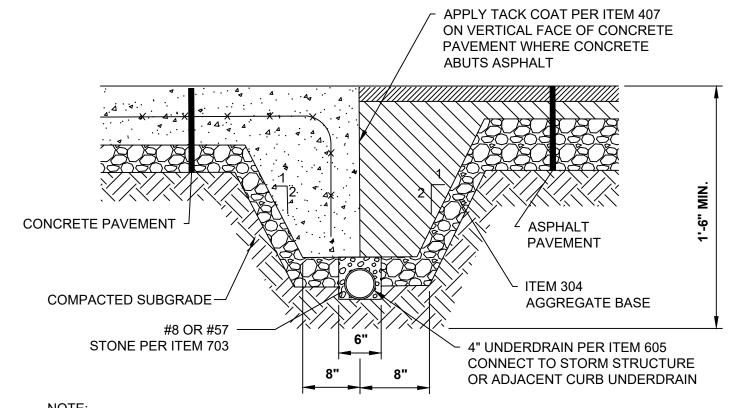


B DETAIL GRAVEL WALK N.T.S.



C DETAIL

UTILITY YARD GRAVEL PAVEMENT N.T.S.



NOTE:

1. CONTRACTOR SHALL PROVIDE TURNDOWN ANYWHERE ASPHALT AND CONCRETE OR CONCRETE BASE PAVEMENT MEET.

D DETAIL
ASPHALT CONCRETE TURNDOWN SLAB

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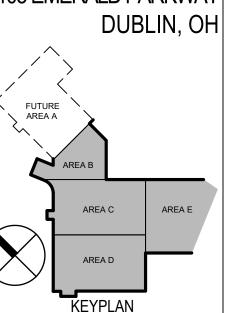
LANDSCAPE ARCHITECT

462 SOUTH LUDLOW ALLEY COLUMBUS, OH 43215 614.621.2796

**MOUNT CARMEL HEALTH** SYSTEM



NORTHWEST HEALTH CAMPUS 4105 EMERALD PARKWAY



△NO DESCRIPTION DATE

ISSUANCE HISTORY - THIS SHEET

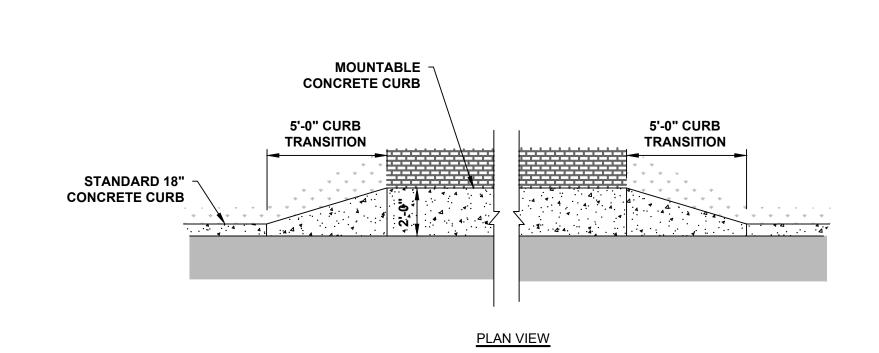
STAKING DETAILS

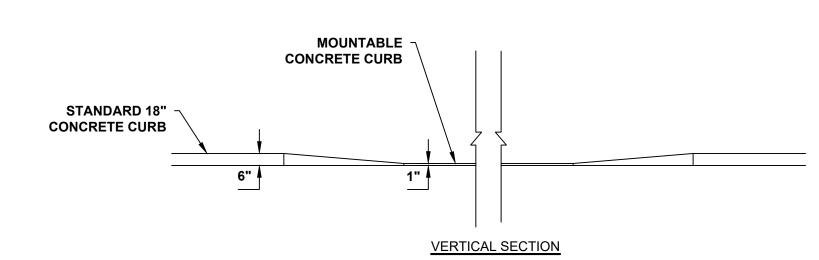
DATE: SEPTEMBER 6, 2022

FINAL DEVELOPMENT
PLAN

C109

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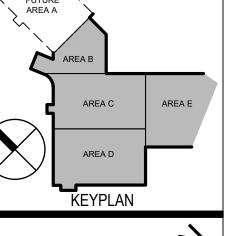
> 1650 WATERMARK DRIVE COLMBUS, OH 43215 614.487.1650

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**MOUNT CARMEL** HEALTH **SYSTEM** 

NORTHWEST HEALTH

4105 EMERALD PARKWAY DUBLIN, OH



ISSUANCE HISTORY - THIS SHEET

HGA NO: 1927-004-00

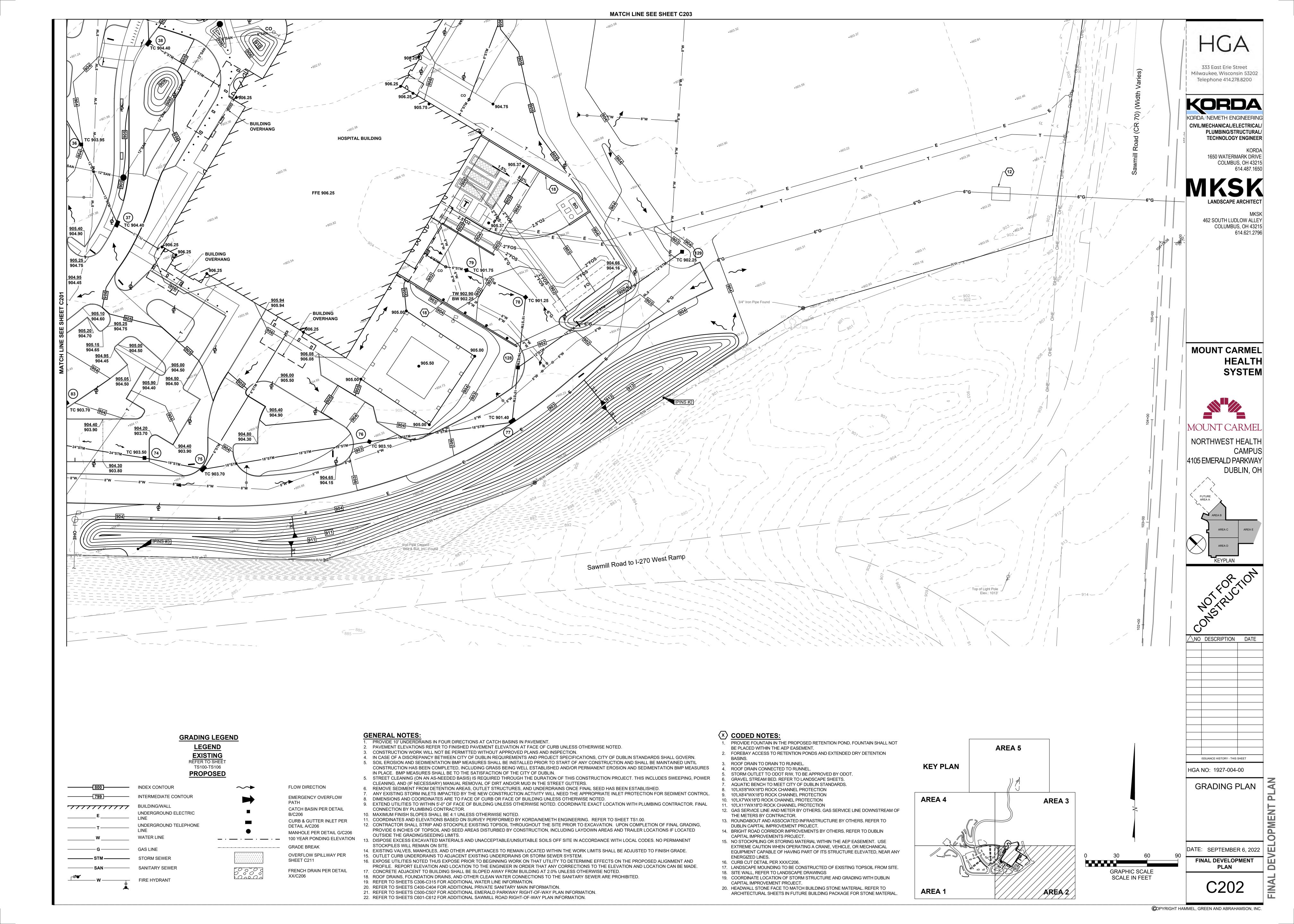
OVERALL **GRADING PLAN** 

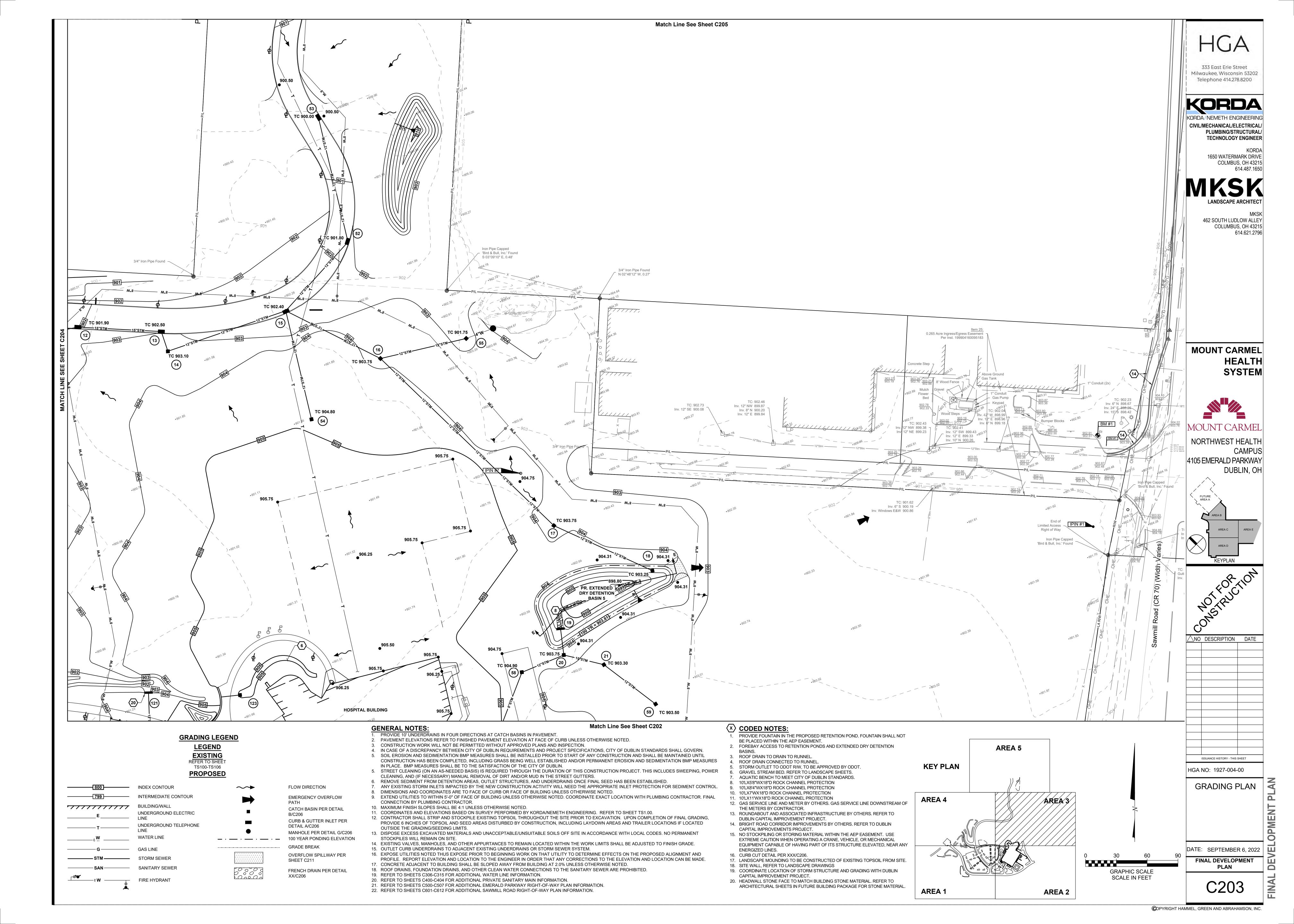
DATE: SEPTEMBER 6, 2022

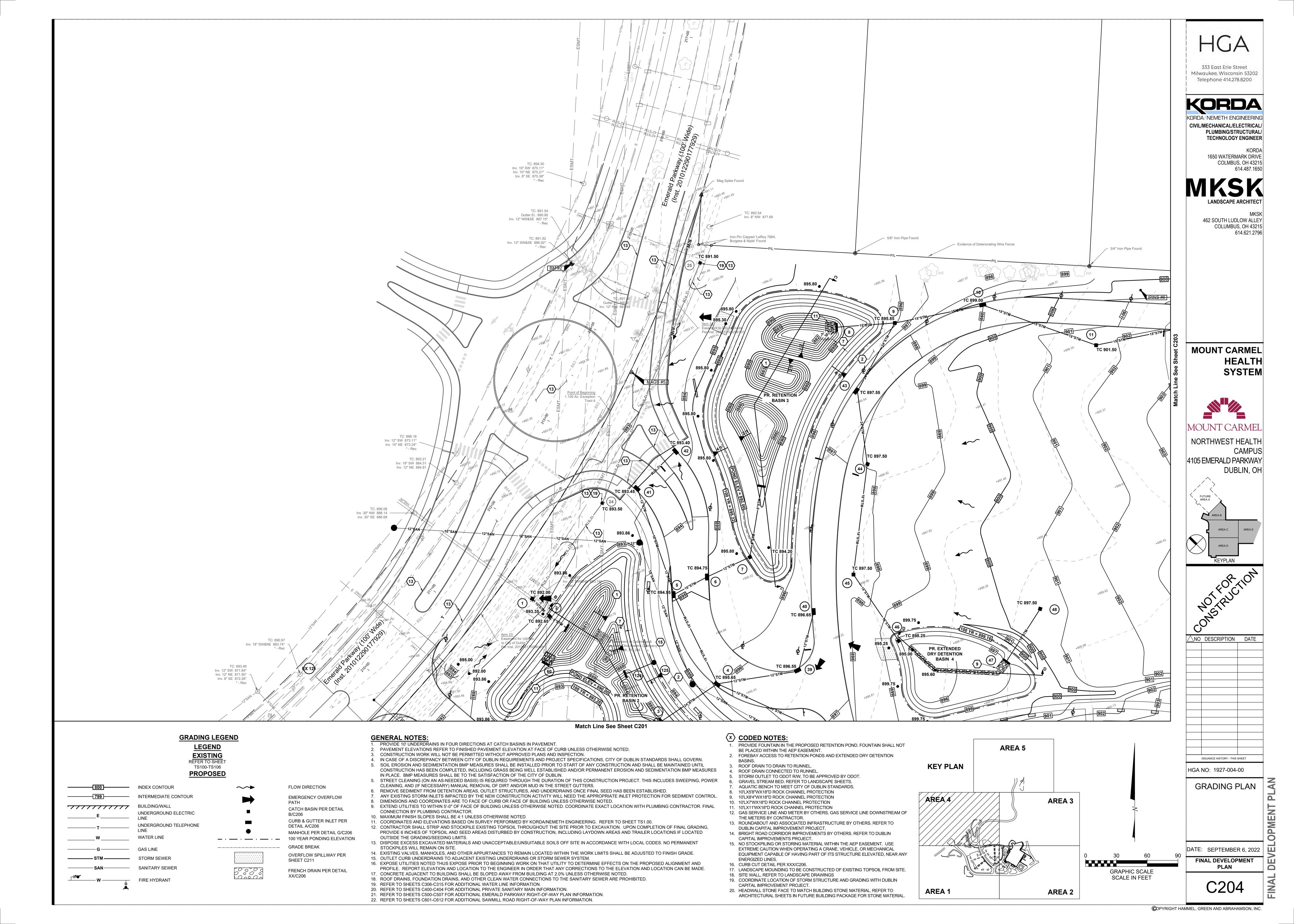
FINAL DEVELOPMENT PLAN

C200











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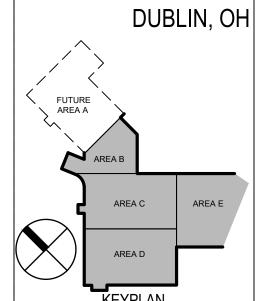
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MOUNT CARMEL
HEALTH
SYSTEM



NORTHWEST HEALTH
CAMPUS
4105 EMERALD PARKWAY
DUBLIN, OH



KEYPLAN

	C)	2/2	
•	$\triangle$ NO	DESCRIPTION	DATE

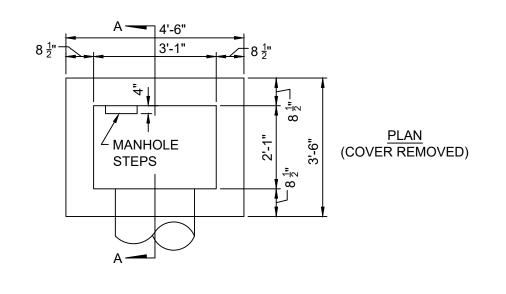
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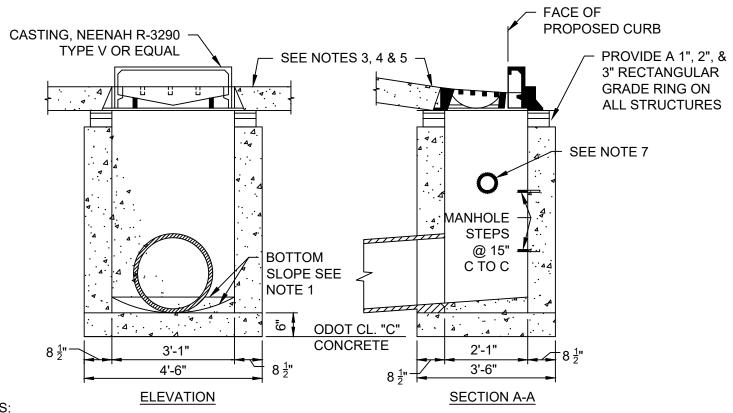
GRADING PLAN

DATE: SEPTEMBER 6, 2022

FINAL DEVELOPMENT PLAN

5205





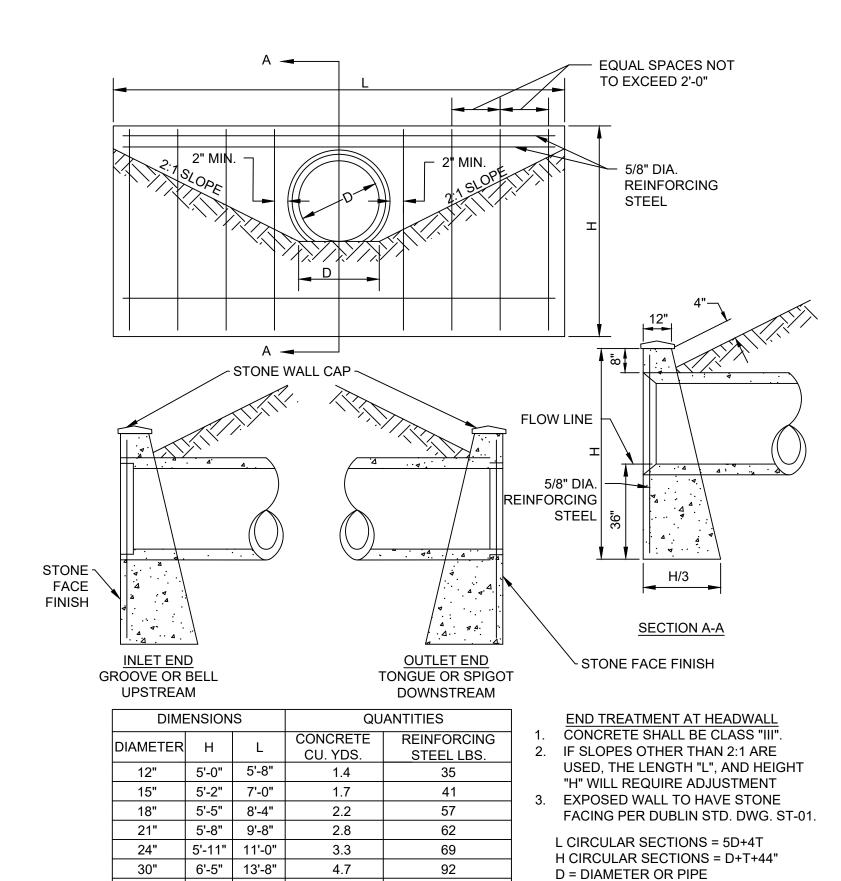
1. THE INLET BOTTOM SHALL BE SHAPED TO PROVIDE SLOPE OF 3" TO 4" TO OUTLET PIPE. THE CROSS SECTIONAL FORM OF BOTTOM AND LONGITUDINAL SLOPE IS TO BE ADAPTED TO LOCATION OF OUTLET PIPE AS DIRECTED.

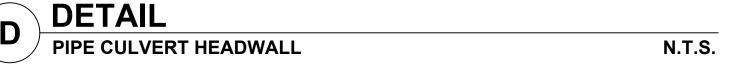
- 2. OUTLET PIPE MAY BE LOCATED IN FRONT OR BACK AND THE OUTLET PIPE SHALL BE DIRECTED TOWARDS THE CENTER OF THE INLET.
- 3. THE EXISTING GUTTER WITHIN AN AREA APPROXIMATELY 4 FT. OUTSIDE INLET OPENING, OR AS OTHERWISE ORDERED, SHALL BE CUT OUT SO THAT REPAVING MAY BE SHAPED TO MEET THE DEPRESSED LIP OF THE INLET OPENING AS DIRECTED.
- 4. THE EXISTING GUTTER, WHERE CUT OUT FOR DEPRESSION, SHALL BE REPLACED WITH CLASS "C" CONCRETE OF ASPHALTIC CONCRETE PAVING AS ORDERED.
- 5. THE BACKFILLING WITHIN PROPOSED PAVED AREAS SHALL BE WELL TAMPED IN LAYERS NOT EXCEEDING 4 IN. THICKNESS LOOSE MEASUREMENT, OR BACKFILLED WITH AN APPROVED MATERIAL.
- 6. WALLS TO BE CAST IN PLACE CONCRETE (CLASS "C"), OR PRE-CAST CONCRETE (CLASS "C"). 7. PLACE 4" CURB DRAIN STUBS 30" BELOW TOP OF CURB OR AS DIRECTED.
- 8. PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND BE REINFORCED SUFFICIENTLY TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.



36" 7'-0" 16'-4" 6.5

N.T.S.



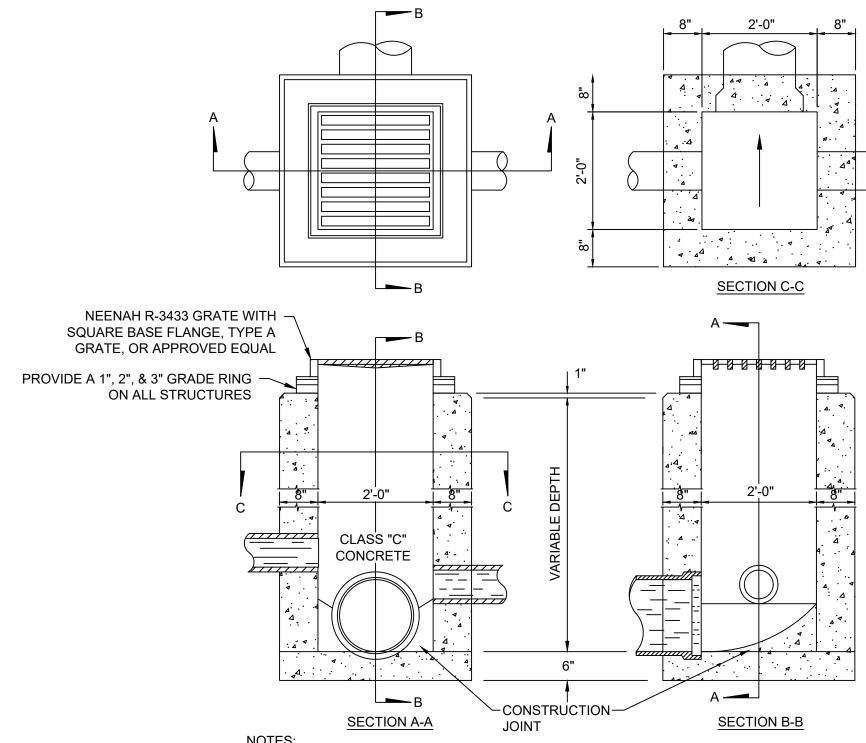


T = THICKNESS OF BARREL

L = LENGTH OF HEADWALL

H = HEIGHT OF HEADWALL

105

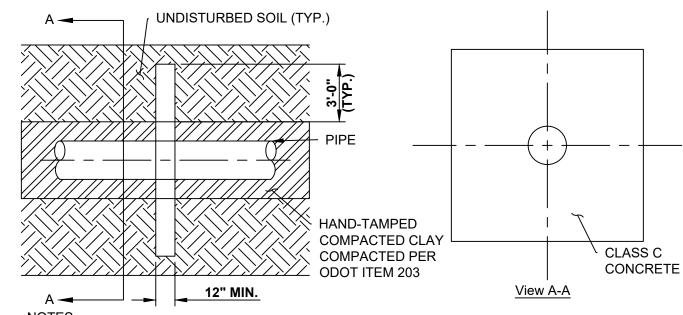


BRICK OR CONCRETE BLOCK SIDE WALLS, WHEN USED IN PLACE OF CONCRETE, SHALL BE 8" NOMINAL THICKNESS. WHEN BRICK OR CONCRETE BLOCKS ARE USED, THE OUTSIDE WALLS OF THE CATCH BASIN SHALL BE PLASTERED WITH A 1/2" COAT

- OF LIME CEMENT MORTAR. 2. GRATE ELEVATION TO BE PLACED 4 TO 6 INCHES BELOW NORMAL DITCH RETURNING
- TO NORMAL 10 FEET EACH SIDE OF BASIN. 3. CONCRETE CAST IN PLACE TO BE ODOT CLASS "C" ITEM 499.
- 4. TRAFFIC DUTY FRAME & GRATE NEENAH R-4852 & R-4899 OR EQUAL.
- 5. PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 5 INCHES AND BE REINFORCED SUFFICIENTLY TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.

# **DETAIL**

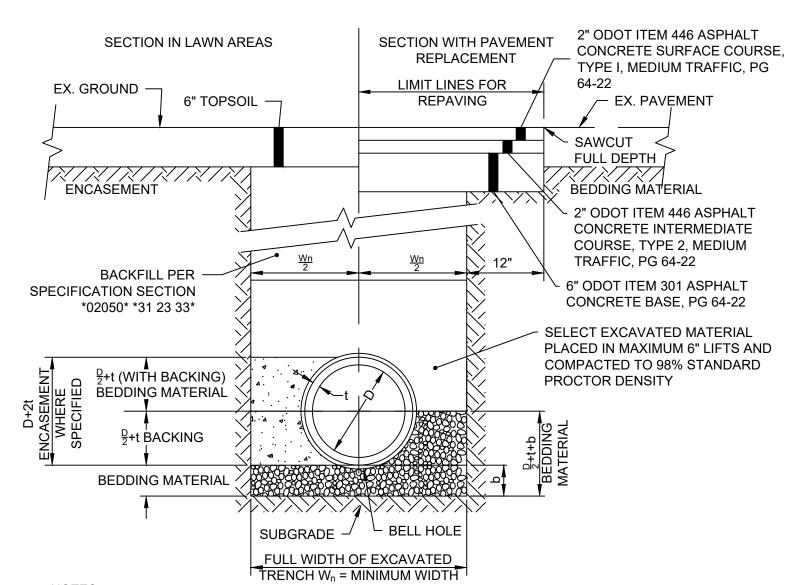
**CATCH BASIN** N.T.S.



SPACING BETWEEN ADJACENT COLLARS SHALL BE A MINIMUM OF 5 FEET WITH THE FIRST COLLAR BEING A MINIMUM OF 5 FEET FROM THE INLET. 2. FURNISH A MINIMUM OF 2 COLLARS PER OUTLET CONDUIT 3. ALL ANTI-SEEP COLLARS AND THEIR CONNECTIONS SHALL BE

### WATERTIGHT. **DETAIL**

N.T.S. **ANTI-SEEP COLLAR** 



1. SECTIONS SYMMETRICAL ABOUT €.

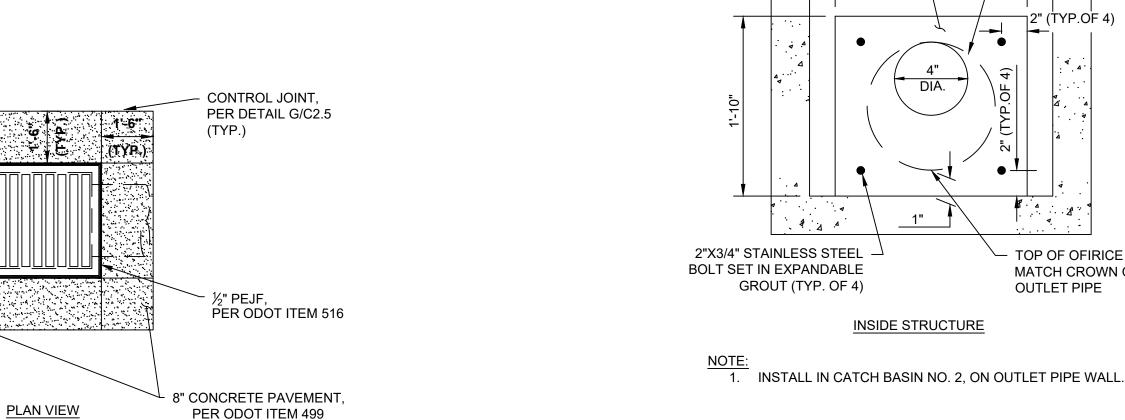
DIMENSIONS ARE EXPRESSED IN INCHES. BACKING OR ENCASEMENT TO BE ODOT CLASS "QC1" CONCRETE ON SANITARY SEWER CONSTRUCTION TRENCH DAMS ARE REQUIRED AS SPECIFIED UNDER 901 5. PAYMENT FOR CONCRETE BACKING AND ENCASEMENT SHALL BE BASED ON MINIMUM TRENCH

SMALL DIAMETERS b = 4"		MID DIAMETERS b = 6"			I	LARGE DIAMETERS b = 6"						
D*	W <sub>n</sub> *	W <sub>x</sub> *		D*	W <sub>n</sub> *	W <sub>x</sub> *			D*	W <sub>n</sub> *	W <sub>x</sub> *	
6	24	48		30	57	67			72	116	134	ĺ
8	27	48		33	61	71			78	123	141	İ
10	30	48		36	64	74			84	130	148	İ
12	32	48		42	71	81			91	136	155	ĺ
15	36	50		48	78	88			96	143	162	İ
18	40	53		54	87	95			102	151	169	
21	44	57		60	96	102			108	160	176	
24	48	60		66	105	127						
27	52	64										

**DETAIL** 

PERMANENT PAVEMENT REPLACEMENT

-CONCRETE ITERMEDIATE COURSE TYPE 2, MEDIUM TRAFFIC, PG 64-22 └6" ODOT ITEM 301 ASPHALT CONCRETE BASE, PG 64-22 BACKFILL PER SPECIFICATION SECTION 31 00 00 BEDDING MATERIAL SUBGRADE BELL HOLE FULL WIDTH OF EXCAVATED TRENCH  $W_n = MINIMUM WIDTH$ 1. SECTIONS SYMMETRICAL ABOUT &. \*2. DIMENSIONS ARE EXPRESSED IN INCHES. 3. BACKING OR ENCASEMENT TO BE ODOT CLASS "QC1" CONCRETE. 4. ON SANITARY SEWER CONSTRUCTION TRENCH DAMS ARE REQUIRED AS SPECIFIED UNDER 901. 5. PAYMENT FOR CONCRETE BACKING AND ENCASEMENT SHALL BE BASED ON MINIMUM TRENCH SMALL DIAMETERS MID DIAMETERS DETAIL N.T.S. TYPE 1 BEDDING FOR FLEXIBLE SEWER PIPE & N.T.S. PERMANENT PAVEMENT REPLACEMENT



CLASS C W/ SYNTHETIC FIBER REINFORCEMENT

SYNTHETIC FIBER REINFORCEMENT: ASTM C1116-97 AND ASTM C1018-97. ACCEPTABLE PRODUCTS

- INCLUDE: A. NYCON NYLON FIBERS
- B. FORTA NYLO-MONO FIBERS C. FIBERMESH FIBERMIX STEALTH POLYPROPYLENE FIBERS
- D. GRACE POLYPROPYLENE FIBERS SYNTHETIC FIBER REINFORCEMENT SHALL BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DOSAGE RATE SHALL BE AS RECOMMENDED BY THE
- MANUFACTURER, BUT NOT LESS THAN 1 POUND PER CUBIC YARD. DISSIPATING CURING COMPOUND: COMPLY WITH ASTM C309-98A, TYPE 1, CLASS B (CLEAR), EXCEPT MOISTURE LOSS NOT TO EXCEED 0.40 KG/M<sup>2</sup> IN 72 HOURS. COMPOUND SHALL COMPLY WITH EPA'S VOC REQUIREMENTS. APPLY AT THE MANUFACTURER'S WRITTEN RECOMMENDED APPLICATION RATE. COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLICATION OF PENETRATING SEALER.
- 3. PENETRATING SEALER: ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO: A. L&M CONSTRUCTION CHEMICALS - AQUAPEL PLUS 40
  - B. PROSOSO SALTGUARD WB HULS AMERICA INC. - CHEM-TRETE BSM 40
  - MASTER BUILDERS INC. MASTERSEAL SL 40
  - E. LYMTAL INTERNATIONAL ISO-FLEX 618-50 WB F. BASF - ENVIROSEAL 40 OR HYDROZO SILANE 40

**SECTION IN LAWN AREAS** 

6" TOPSOIL-

EX. GROUND —

ENCASEMENT

G. TEX-COTE - RAINSTOPPER RS140

2" ODOT ITEM 446 ASPHALT

COURSE, TYPE 1, MEDIUM

+EX. PAVEMENT

CONCRETE SURFACE

TRAFFIC, PG 64-22

-SAWCUT FULL,

/ BEDDING MATÉRIAI

2" ODOT ITEM 446 ASPHALT

DEPTH

SECTION WITH PAVEMENT

REPLACEMENT

LIMIT LINES FOR REPAVING

OUTLET

12" OUTLET PIPE —

1/4" ALUMINUM PLATE,

CENTERED AROUND

OUTLET PIPE

STRUCTURE

1/4" ALUMINUM PLATE, ROLLED TO MATCH SHAPE

> OF STRUCTURE, IF NECESSARY

12" OUTLET

PIPE (BEHIND)

TOP OF OFIRICE

OUTLET PIPE

- 2" X 3/4" STAINLESS STEEL BOLT SET IN

EXPANDABLE GROUT (TYP. OF 4)

ON HEADWALL

MATCH CROWN OF

10' (TYP.) 4" PERFORATED POLYETHYLENE TUBING, PER ASTM F-405 STANDARD CATCH BASIN - PAVEMENT SUBGRADE ODOT NO. 8 NOTE:

1. PROVIDE 10' FINGER DRAINS FOR ALL

OCATED' PROPOSED CATCH BASINS LOCATED WITHIN PAVEMENT. 

**DETAIL** PAVEMENT UNDERDRAIN

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PLUMBING/STRUCTURAL/

614.487.1650

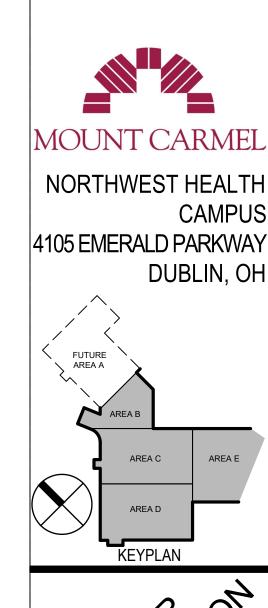
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**MOUNT CARMEL HEALTH SYSTEM** 

N.T.S.

SECTION A-A

N.T.S.



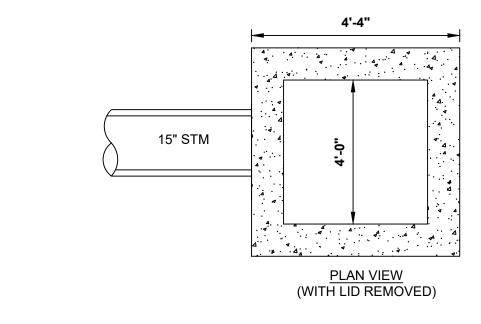
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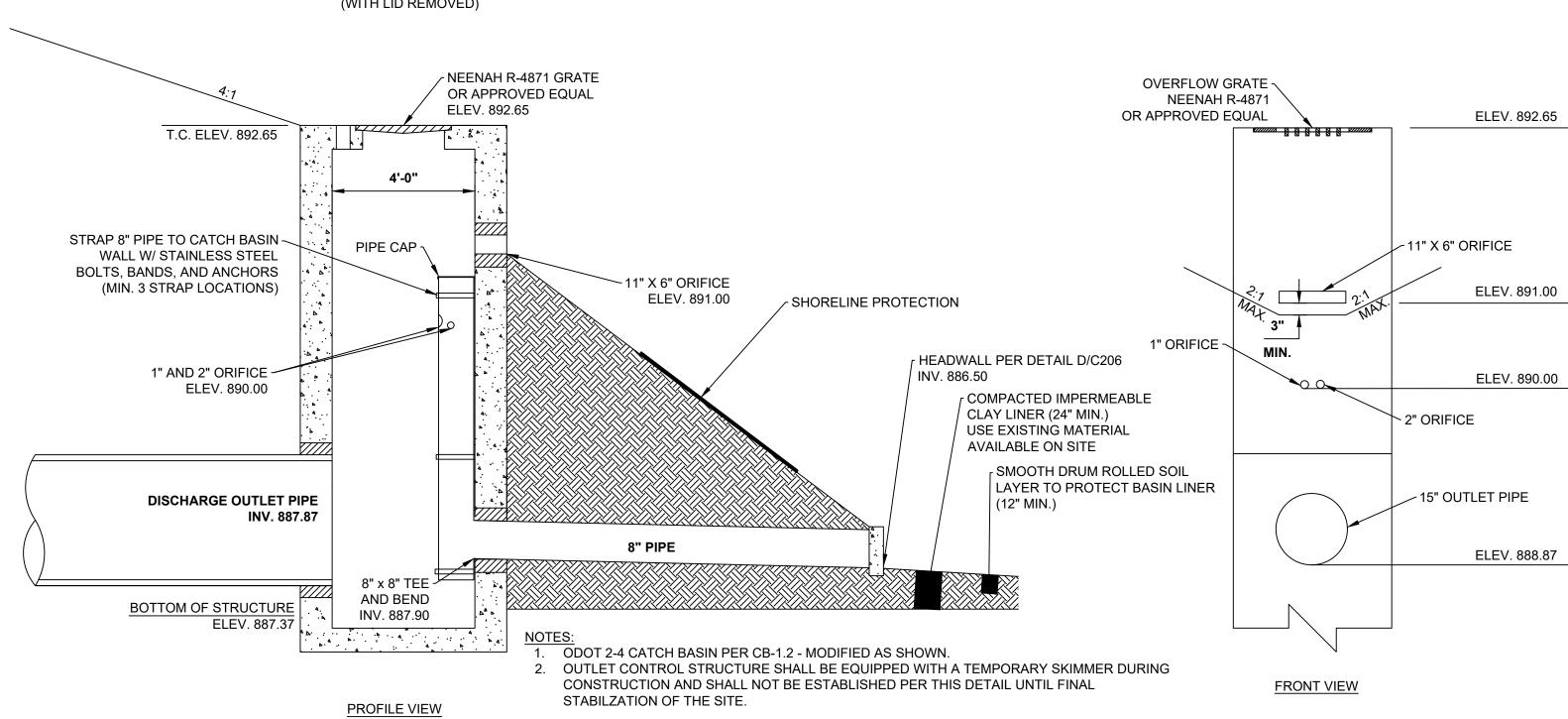
HGA NO: 1927-004-00

STORM DETAILS

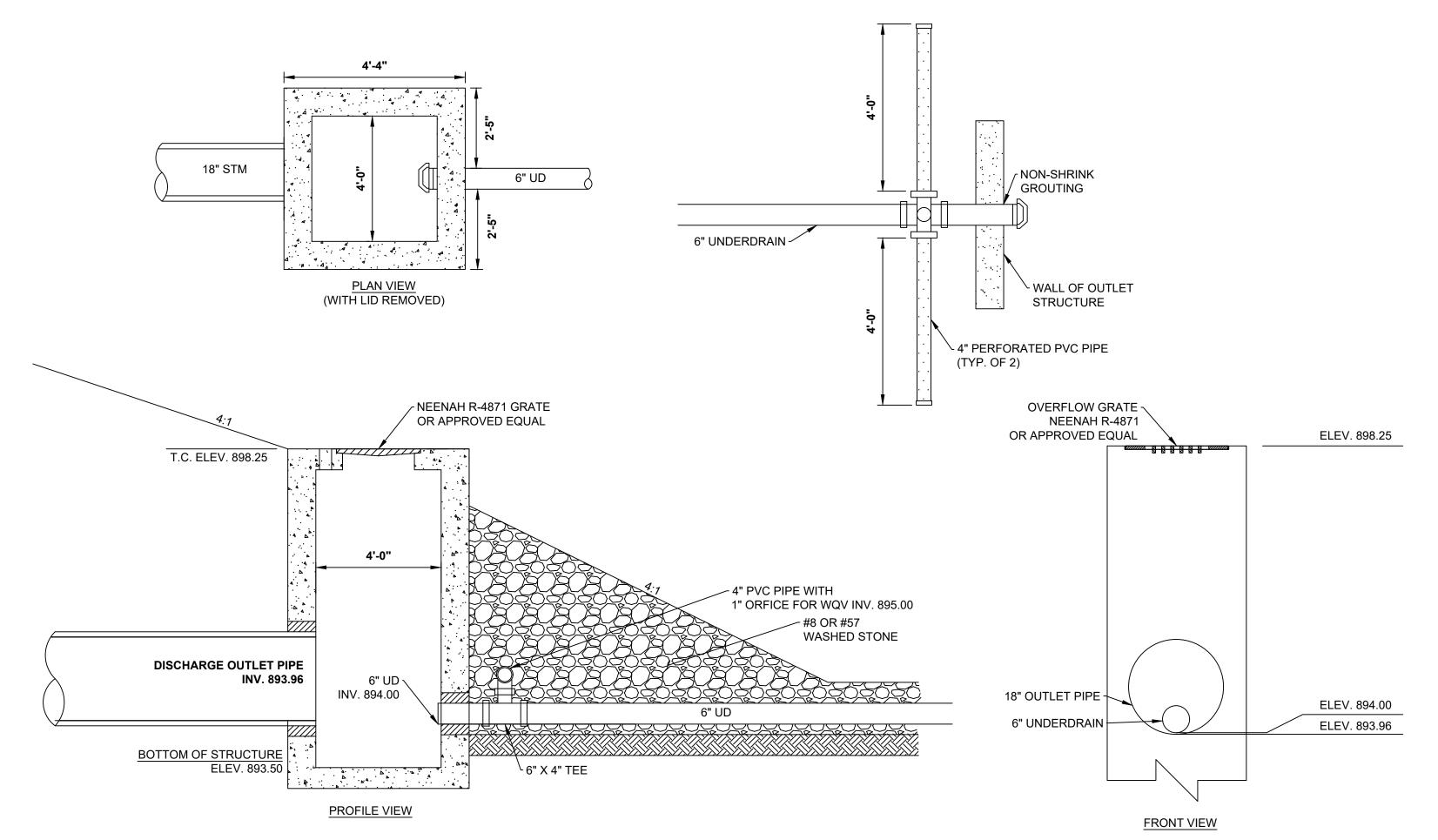
DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT

**PLAN** 





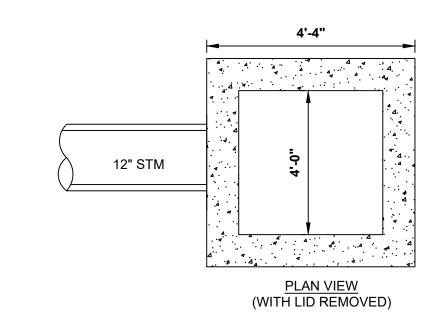
DETAIL BASIN 1&2 OUTLET CONTROL STRUCTURE. N.T.S.

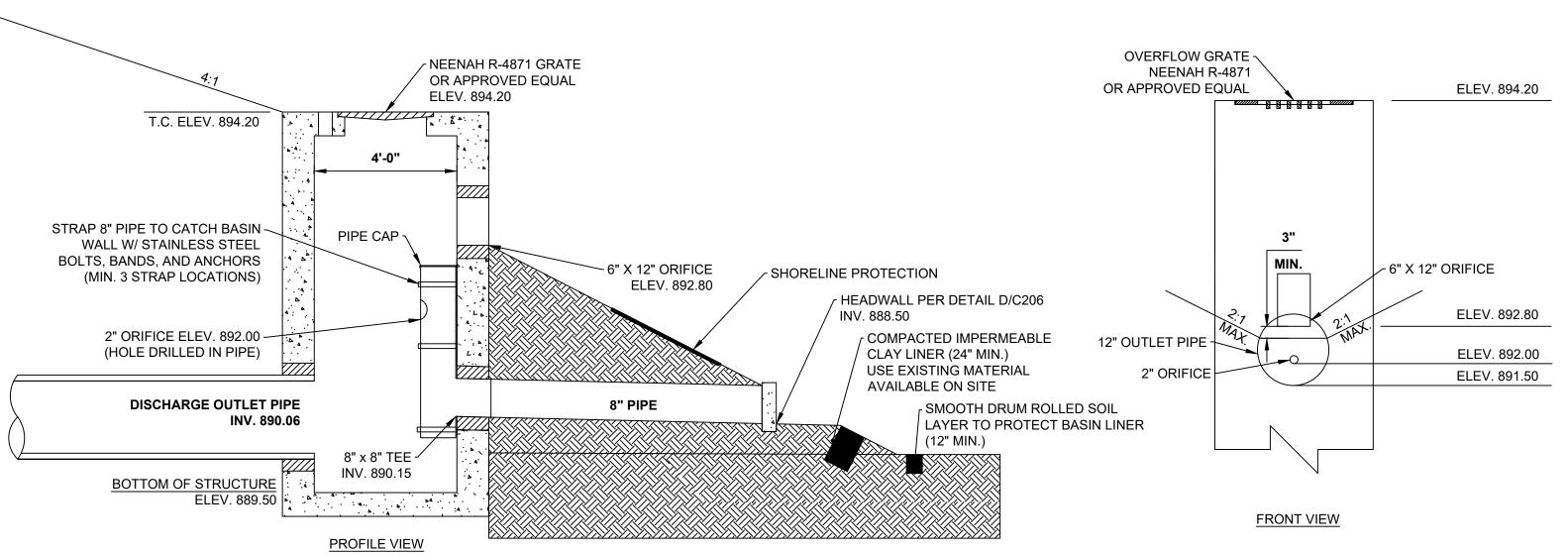


NOTES:

1. ODOT 2-4 CATCH BASIN PER CB-1.2 - MODIFIED AS SHOWN.

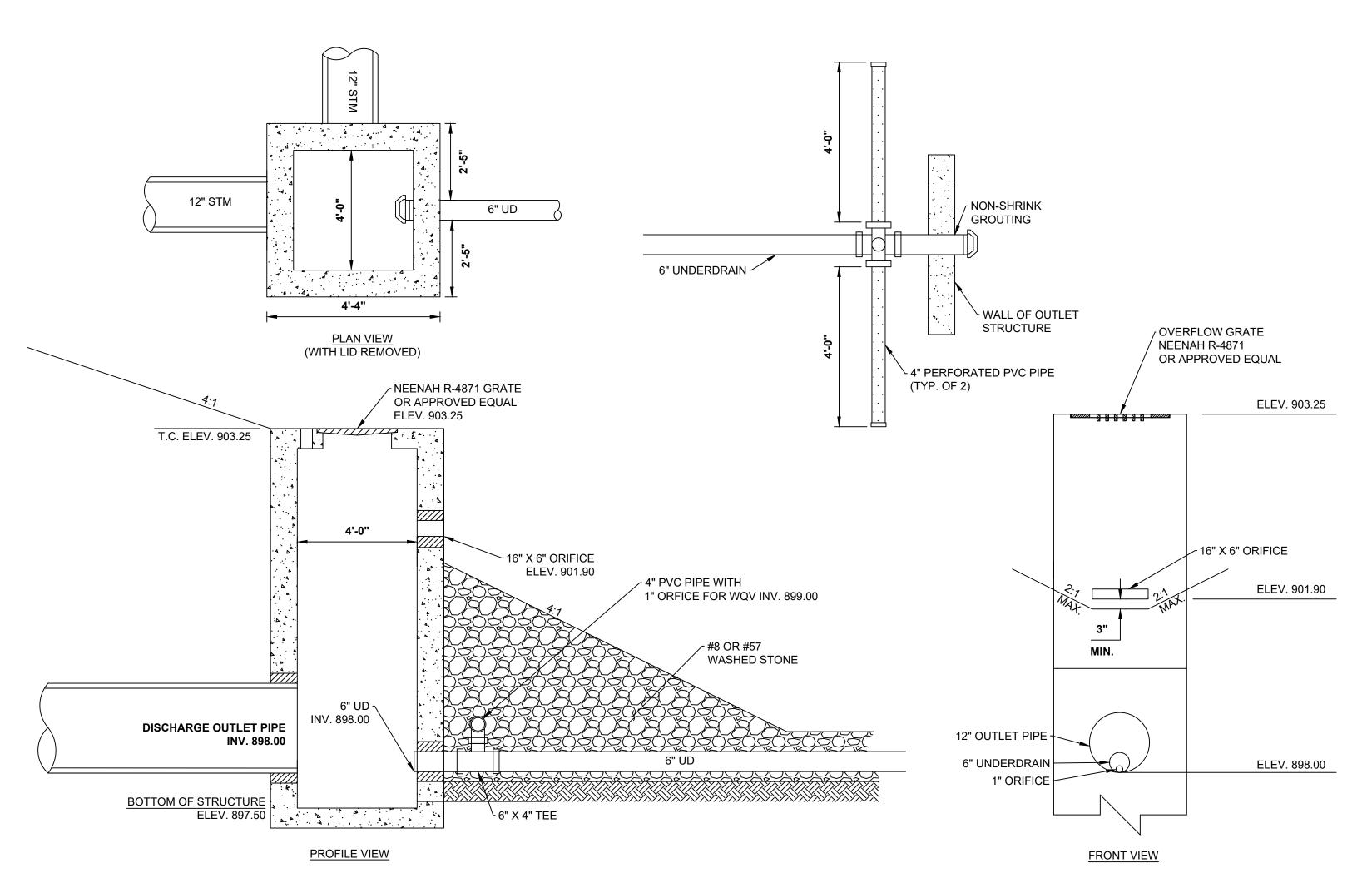
**DETAIL** BASIN 4 OUTLET CONTROL STRUCTURE





1. ODOT 2-4 CATCH BASIN PER CB-1.2 - MODIFIED AS SHOWN.

**BASIN 3 OUTLET CONTROL STRUCTURE** N.T.S.



NOTES:

1. ODOT 2-4 CATCH BASIN PER CB-1.2 - MODIFIED AS SHOWN.

D DETAIL BASIN 5 OUTLET CONTROL STRUCTURE.

N.T.S.

- NOTES:

  1. SHORELINE PROTECTION SHALL BE A GEOTEXTILE MEETING THE MINIMUM REQUIREMENTS OF ITEM
- CMSC ITEM 712.11, TYPE E. 2. SEED AND JUTE MATTING SHALL BE PER ITEM 671 (TYPE "B" EROSION CONTROL MATERIAL - CMSC ITEM
- 3. THE IMPERVIOUS MATERIAL LINER SHALL BE INSTALLED BY OVEREXCAVATING THEN PLACING SUITABLE FILL MATERIAL (AS DEFINED BY THE REGISTERED SITE SOILS ENGINEER) IN 6 TO 8 INCH LOOSE LIFTS AND RECOMPACTING. THE FILL SHOULD BE COMPACTED TO A UNIT WEIGHT OF AT LEAST 98 PERCENT OF THE MAXIMUM UNIT DRY WEIGHT AS DETERMINED BY ASTM D 698 AND THE MOISTURE
- CONTENT MAINTAINED WITHIN -1% TO +3% OF THE OPTIMUM MOISTURE CONTENT. 4. A REGISTERED SITE SOILS ENGINEER MUST BE ON-SITE TO OBSERVE, TEST AND DOCUMENT ALL BASIN
- GRADING COMPACTION AND CLAY LINER INSTALLATION. REGISTERED SITE SOILS ENGINEER SHALL BE HIRED BY CONTRACTOR AND REPORTS TO BE FURNISHED TO CITY.
- 5. FOUNTAINS AND AERATORS TO BE PROVIDED PER CITY OF GROVE CITY PUBLIC & PRIVATE POND DESIGN STANDARDS. 6. EXTEND JUTE MATTING 10 FEET BEYOND TOP OF BANK.

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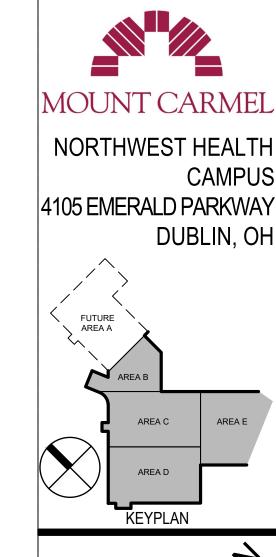
PLUMBING/STRUCTURAL/ TECHNOLOGY ENGINEER

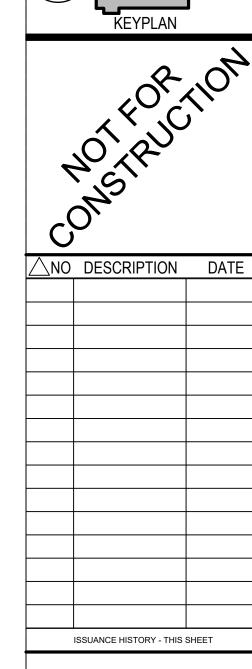
CIVIL/MECHANICAL/ELECTRICAL

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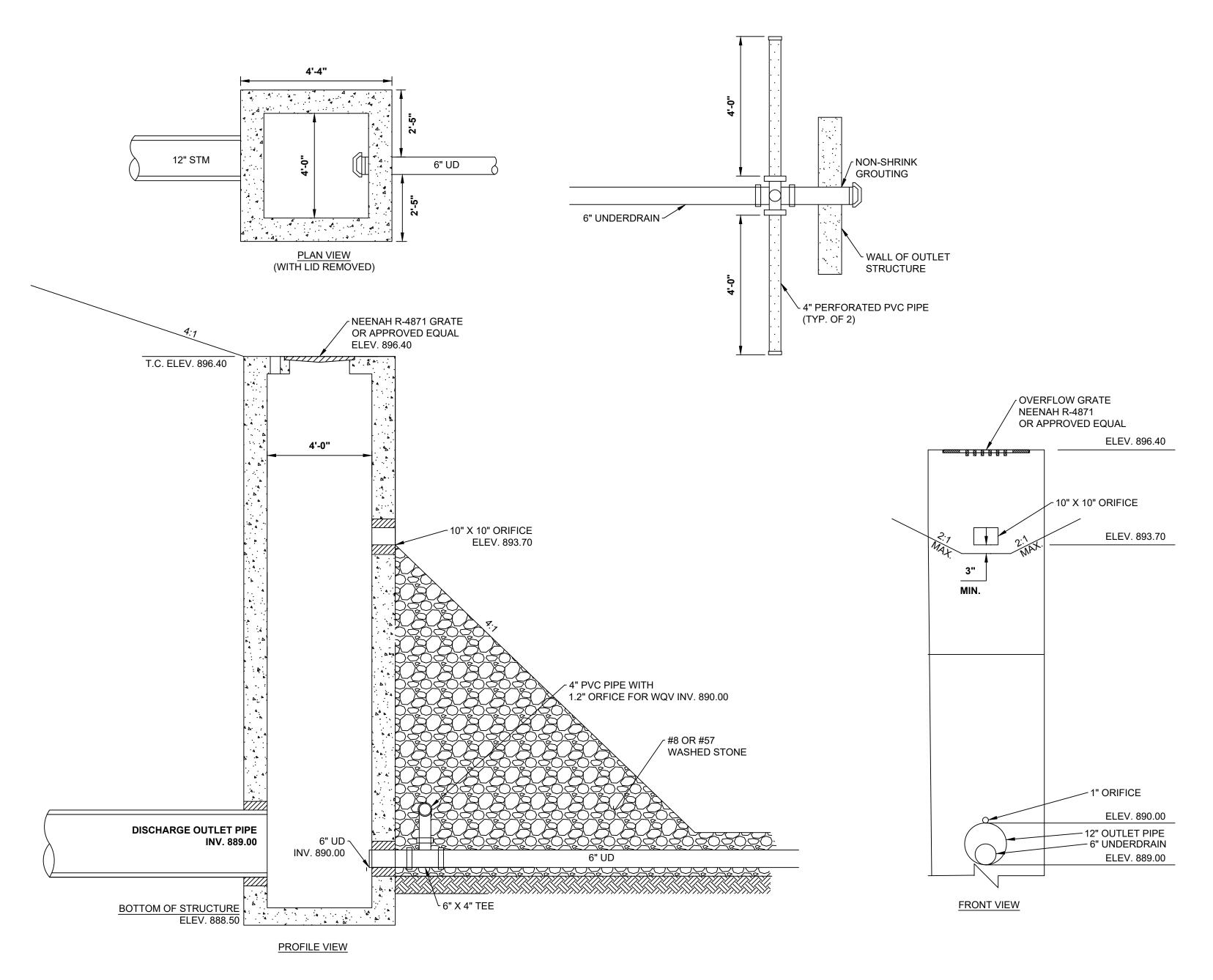
**MOUNT CARMEL HEALTH SYSTEM** 





STORM DETAILS

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT PLAN



NOTES:

1. ODOT 2-4 CATCH BASIN PER CB-1.2 - MODIFIED AS SHOWN.

DETAIL BASIN 8 OUTLET CONTROL STRUCTURE.

/ NON-SHRINK 6" UD 18" STM / GROUTING 6" UNDERDRAIN / <u>PLAN VIEW</u> (WITH LID REMOVED) VWALL OF OUTLET STRUCTURE √ 4" PERFORATED PVC PIPE (TYP. OF 2) NEENAH R-4871 GRATE OR APPROVED EQUAL OVERFLOW GRATE
NEENAH R-4871 ELEV. 898.75 OR APPROVED EQUAILEV. 898.75 T.C. ELEV. 898.75 - 4" X 3" ORIFICE ELEV. 896.70 4'-0" 4" X 3" ORIFICE ELEV. 896.70 4" PVC PIPE WITH 0.5" ORFICE FOR WQV INV. 895.00 WASHED STONE ELEV. 895.00 1" ORIFICE -DISCHARGE OUTLET PIPE INV. 893.78 18" OUTLET PIPE ELEV. 893.78 6" UNDERDRAIN -BOTTOM OF STRUCTURE ELEV. 893.20 <sup>\</sup> 6" X 4" TEE

DETAIL

N.T.S.

 $^{\prime}$  BASIN 9 OUTLET CONTROL STRUCTURE.

N.T.S.

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462 SOUTH LUDLOW ALLEY

**MOUNT CARMEL** 

MOUNT CARMEL

NORTHWEST HEALTH

4105 EMERALD PARKWAY

HEALTH

**SYSTEM** 

DUBLIN, OH

COLUMBUS, OH 43215

614.621.2796

COLMBUS, OH 43215 614.487.1650

△NO DESCRIPTION DATE

ISSUANCE HISTORY - THIS SHEET HGA NO: 1927-004-00

STORM DETAILS

DATE: SEPTEMBER 6, 2022

FINAL DEVELOPMENT PLAN

NOTES:

1. SHORELINE PROTECTION SHALL BE A GEOTEXTILE MEETING THE MINIMUM REQUIREMENTS OF

ITEM CMSC ITEM 712.11, TYPE E. 2. SEED AND JUTE MATTING SHALL BE PER ITEM 671 (TYPE "B" EROSION CONTROL MATERIAL - CMSC

ITEM 712.11). 3. THE IMPERVIOUS MATERIAL LINER SHALL BE INSTALLED BY OVEREXCAVATING THEN PLACING

SUITABLE FILL MATERIAL (AS DEFINED BY THE REGISTERED SITE SOILS ENGINEER) IN 6 TO 8 INCH LOOSE LIFTS AND RECOMPACTING. THE FILL SHOULD BE COMPACTED TO A UNIT WEIGHT OF AT LEAST 98 PERCENT OF THE MAXIMUM UNIT DRY WEIGHT AS DETERMINED BY ASTM D 698 AND THE MOISTURE CONTENT MAINTAINED WITHIN -1% TO +3% OF THE OPTIMUM MOISTURE CONTENT. 4. A REGISTERED SITE SOILS ENGINEER MUST BE ON-SITE TO OBSERVE, TEST AND DOCUMENT ALL

5. FOUNTAINS AND AERATORS TO BE PROVIDED PER CITY OF GROVE CITY PUBLIC & PRIVATE POND

DESIGN STANDARDS.

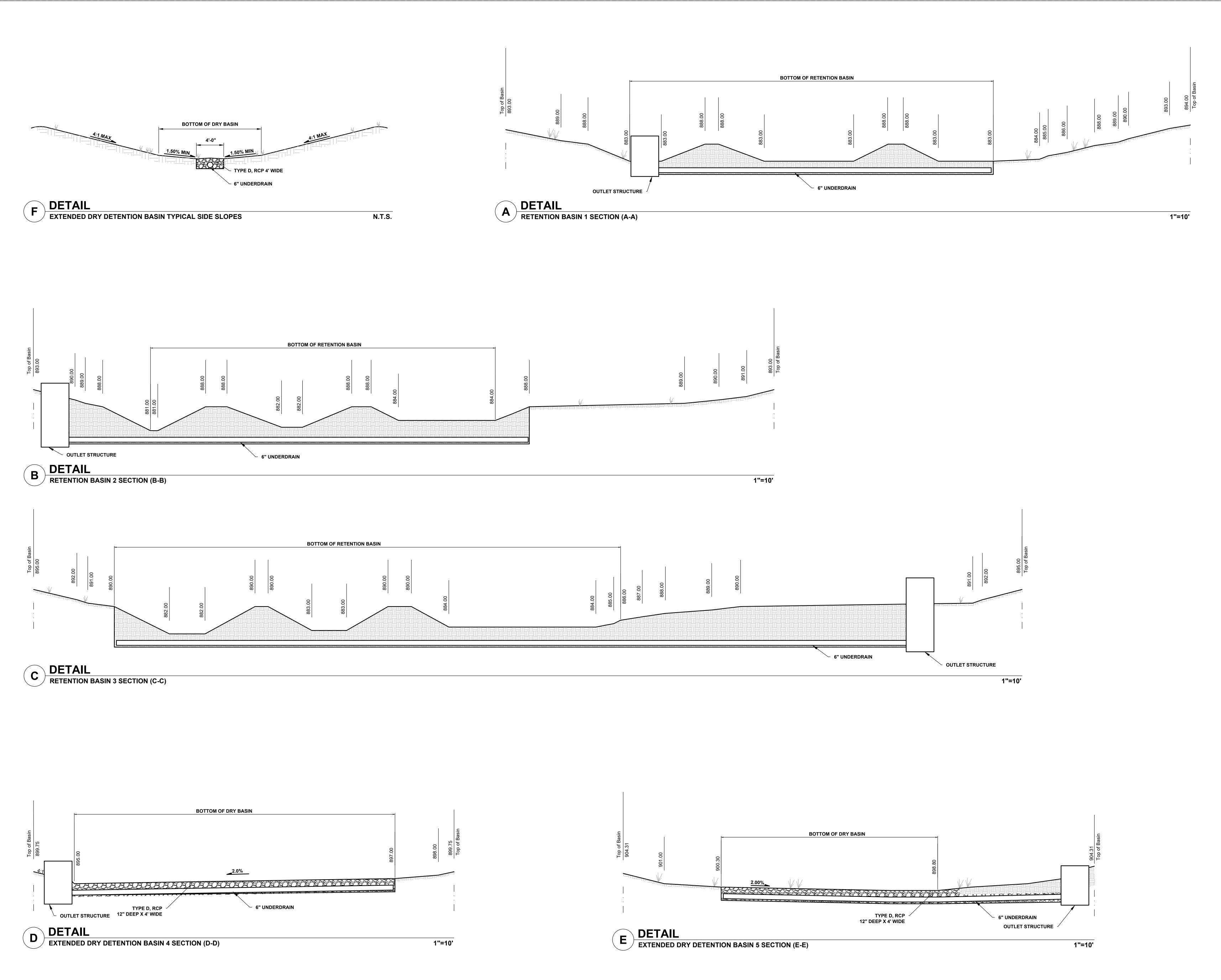
6. EXTEND JUTE MATTING 10 FEET BEYOND TOP OF BANK.

BASIN GRADING COMPACTION AND CLAY LINER INSTALLATION. REGISTERED SITE SOILS ENGINEER SHALL BE HIRED BY CONTRACTOR AND REPORTS TO BE FURNISHED TO CITY.

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PROFILE VIEW 1. ODOT 2-4 CATCH BASIN PER CB-1.2 - MODIFIED AS SHOWN.

2. OUTLET CONTROL STRUCTURE SHALL BE EQUIPPED WITH A TEMPORARY SKIMMER DURING CONSTRUCTION AND SHALL NOT BE ESTABLISHED PER THIS DETAIL UNTIL FINAL STABILZATION OF THE SITE.



HGA

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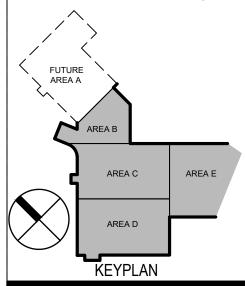
MKSK

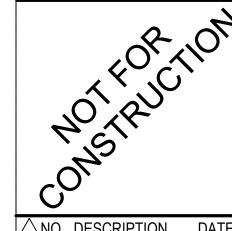
MKSK 462 SOUTH LUDLOW ALLEY COLUMBUS, OH 43215 614.621.2796

MOUNT CARMEL
HEALTH
SYSTEM



NORTHWEST HEALTH CAMPUS 4105 EMERALD PARKWAY DUBLIN, OH





NO DESCRIPTION DATE

HGA NO: 1927-004-0

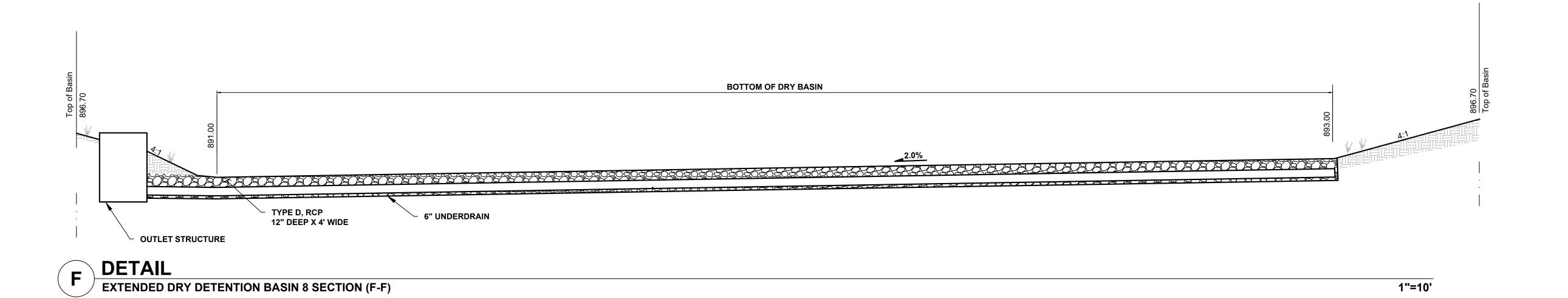
STORM DETAILS

DATE: SEPTEMBER 6, 2022

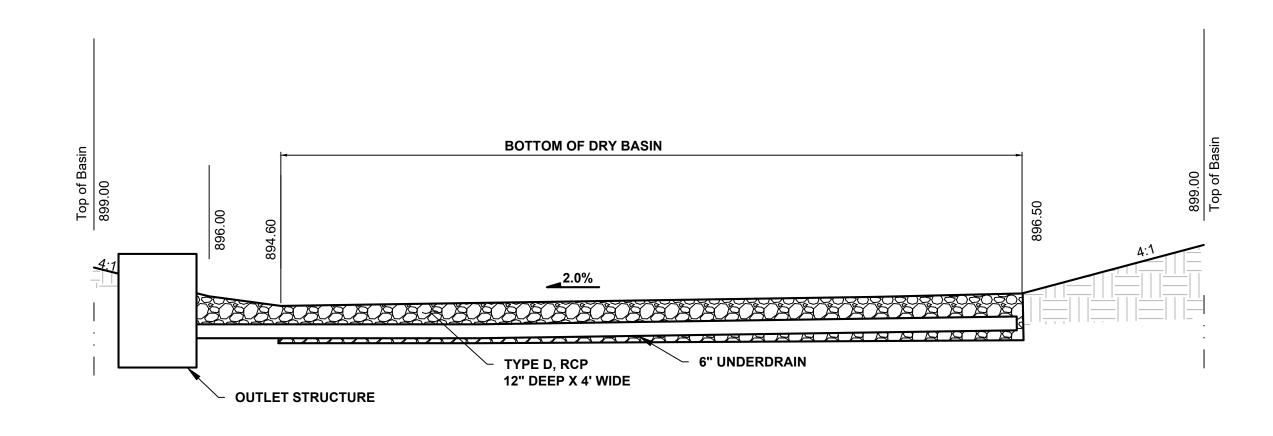
FINAL DEVELOPMENT

PLAN

C209



1"=10'



DETAIL EXTENDED DRY DETENTION BASIN 9 SECTION (G-G) 1"=10"

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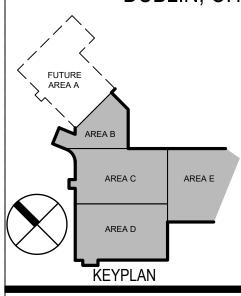
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**MOUNT CARMEL** HEALTH SYSTEM



NORTHWEST HEALTH CAMPUS 4105 EMERALD PARKWAY DUBLIN, OH

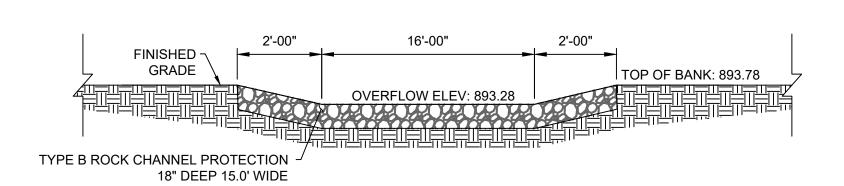


$\triangle$ NO	DESCRIPTION	DATE
i	SSUANCE HISTORY - THIS	SHEET

STORM DETAILS

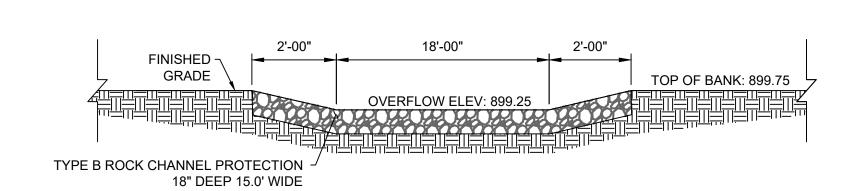
DATE: SEPTEMBER 6, 2022

FINAL DEVELOPMENT
PLAN



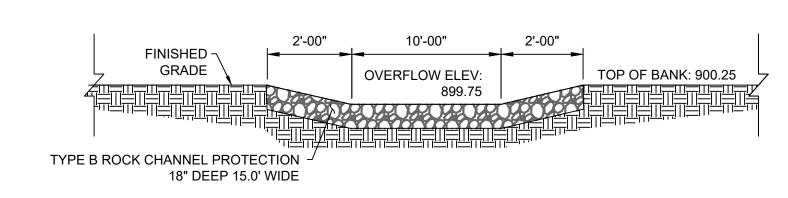
A DETAIL
OVERFLOW SPILLWAY BASIN 1

N.T.S.

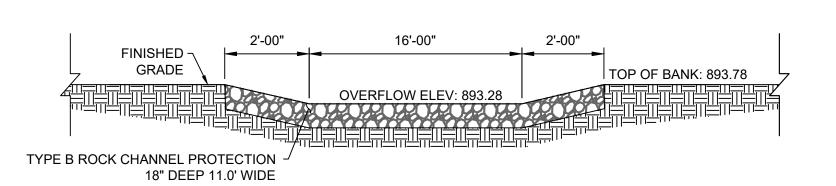


D DETAIL
OVERFLOW SPILLWAY BASIN 4

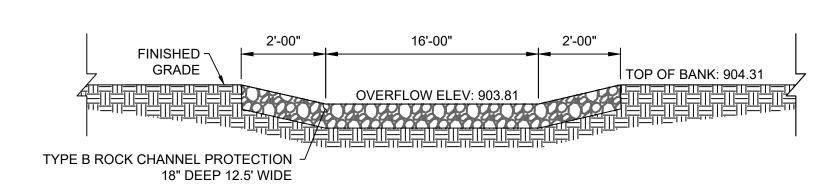
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G DETAIL
OVERFLOW SPILLWAY BASIN 9
N.T.S.

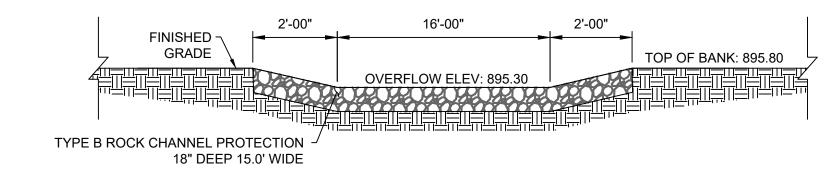


B DETAIL
OVERFLOW SPILLWAY BASIN 2
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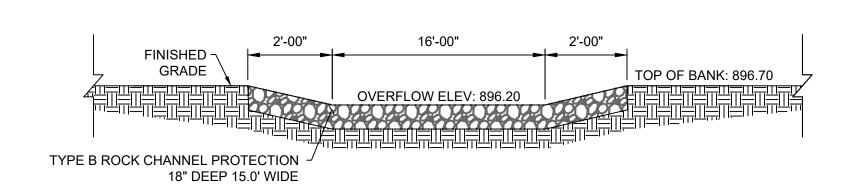
E DETAIL
OVERFLOW SPILLWAY BASIN 5

N.T.S.



C DETAIL
OVERFLOW SPILLWAY BASIN 3

N.T.S.



F DETAIL
OVERFLOW SPILLWAY BASIN 8

N.T.S.



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VKSK LANDSCAPE ARCHITECT

> MKSK 462 SOUTH LUDLOW ALLEY COLUMBUS, OH 43215 614.621.2796

MOUNT CARMEL
HEALTH
SYSTEM



NO DESCRIPTION DATE

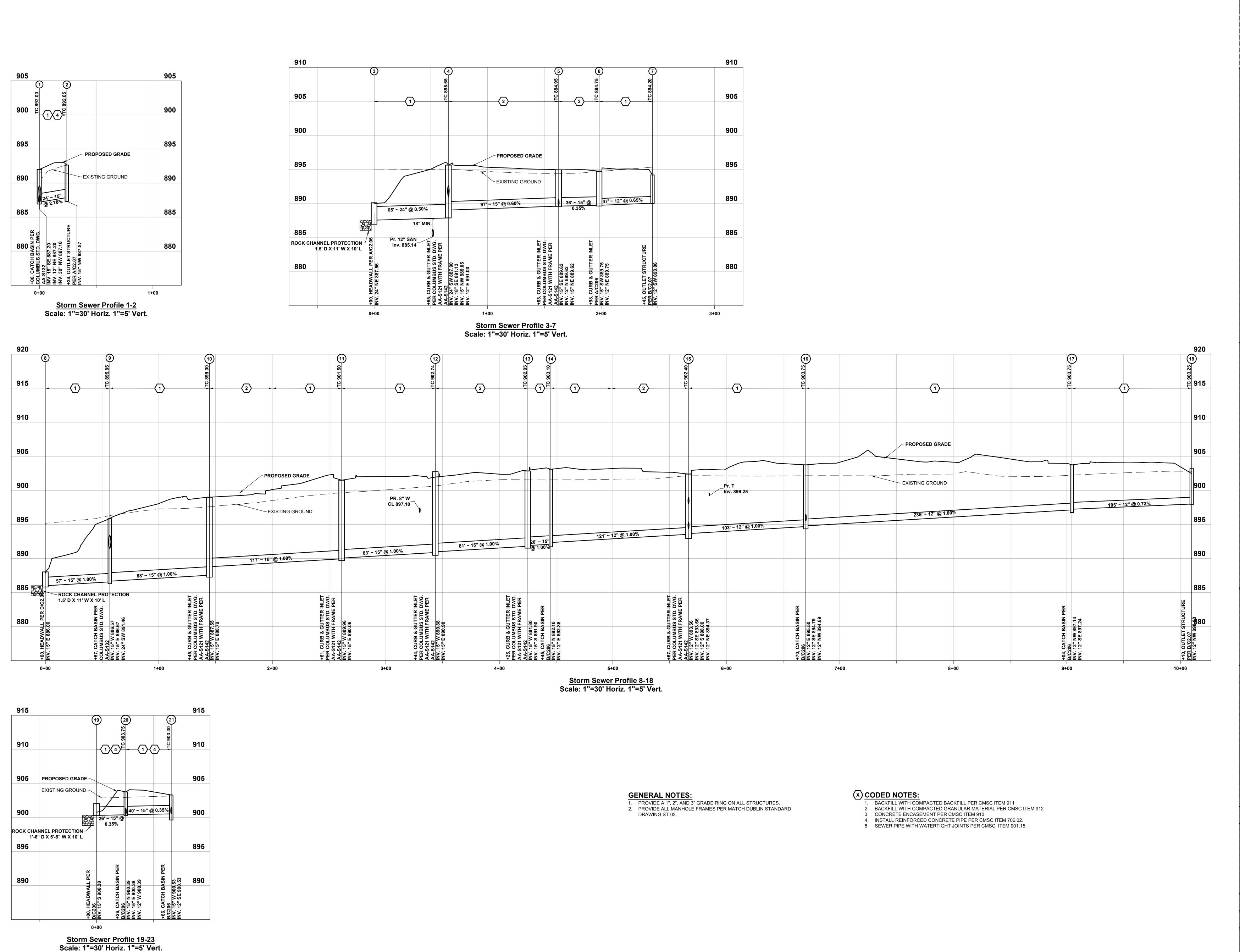
HGA NO: 1927-004-00

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STORM DETAILS

DATE: SEPTEMBER 6, 2022

FINAL DEVELOPMENT
PLAN



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**MOUNT CARMEL** HEALTH SYSTEM

MOUNT CARMEL

NORTHWEST HEALTH 4105 EMERALD PARKWAY

DUBLIN, OH

KEYPLAN

△NO DESCRIPTION DATE

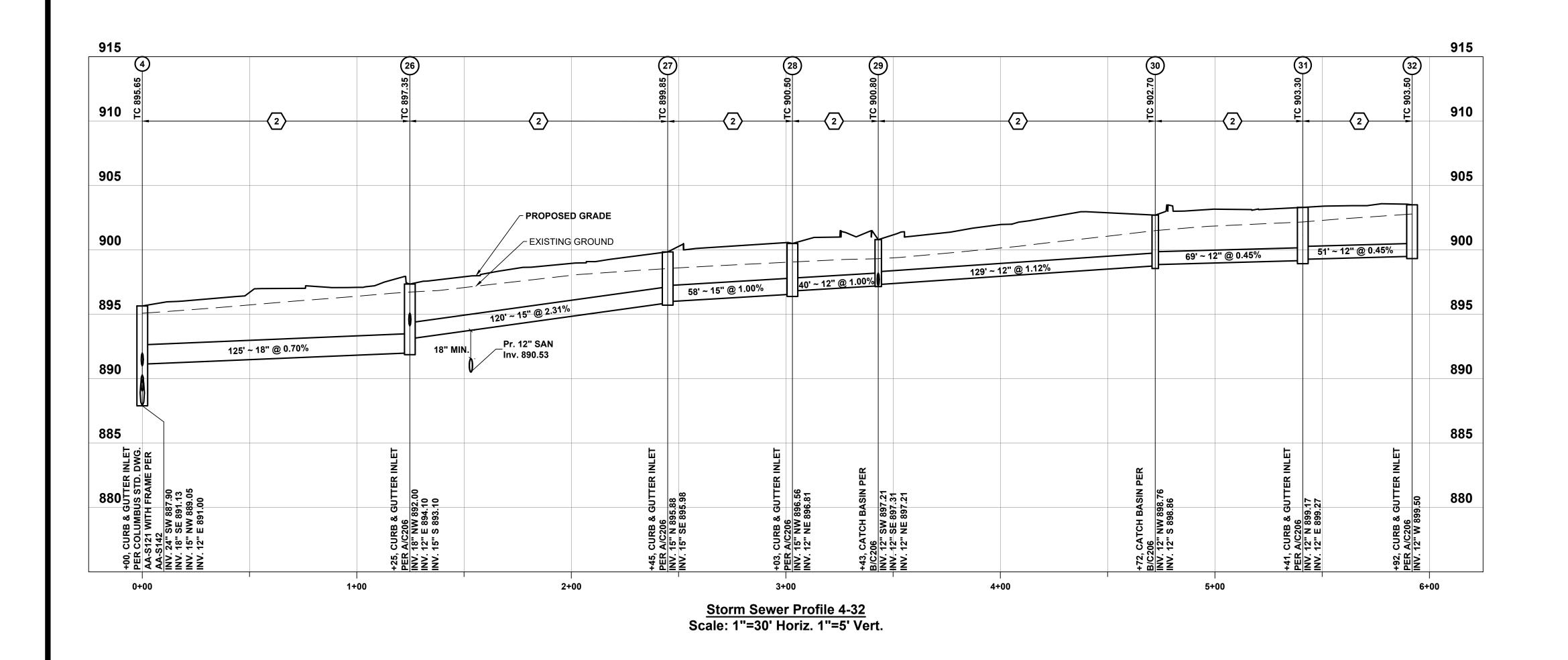
ISSUANCE HISTORY - THIS SHEET

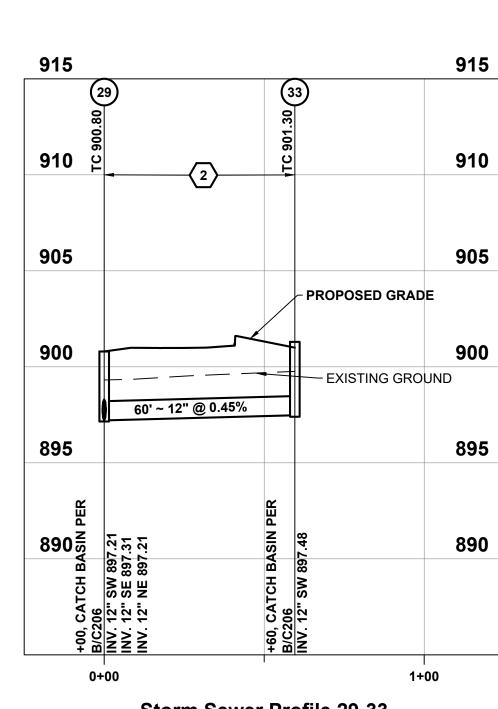
HGA NO: 1927-004-00

STORM PROFILE

DATE: SEPTEMBER 6, 2022

FINAL DEVELOPMENT PLAN





Storm Sewer Profile 29-33
Scale: 1"=30' Horiz. 1"=5' Vert.

**GENERAL NOTES:** 1. PROVIDE A 1", 2", AND 3" GRADE RING ON ALL STRUCTURES. 2. PROVIDE ALL MANHOLE FRAMES PER MATCH DUBLIN STANDARD DRAWING ST-03.

X CODED NOTES:

- BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911 BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912 CONCRETE ENCASEMENT PER CMSC ITEM 910
   INSTALL REINFORCED CONCRETE PIPE PER CMSC ITEM 706.02.

5. SEWER PIPE WITH WATERTIGHT JOINTS PER CMSC ITEM 901.15

STORM PROFILE

DATE: SEPTEMBER 6, 2022

FINAL DEVELOPMENT
PLAN

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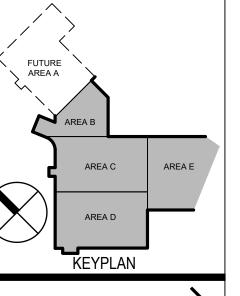
CIVIL/MECHANICAL/ELECTRICAL/ PLUMBING/STRUCTURAL/ TECHNOLOGY ENGINEER

1650 WATERMARK DRIVE COLMBUS, OH 43215 614.487.1650

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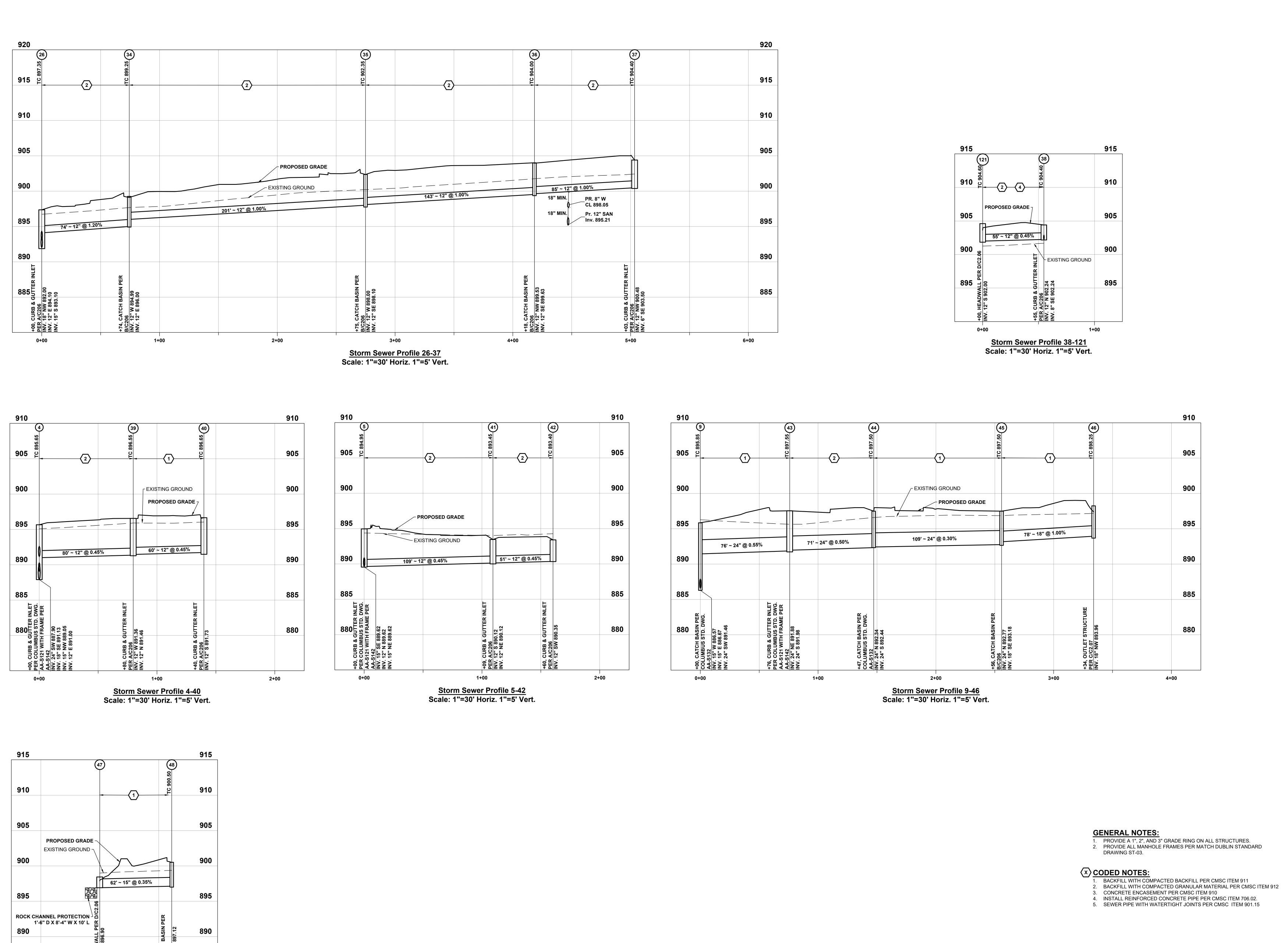
**MOUNT CARMEL** HEALTH SYSTEM





△NO DESCRIPTION DATE

ISSUANCE HISTORY - THIS SHEET HGA NO: 1927-004-00



Storm Sewer Profile 47-49 Scale: 1"=30' Horiz. 1"=5' Vert.

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**MOUNT CARMEL** HEALTH SYSTEM

MOUNT CARMEL NORTHWEST HEALTH CAMPUS 4105 EMERALD PARKWAY DUBLIN, OH

KEYPLAN

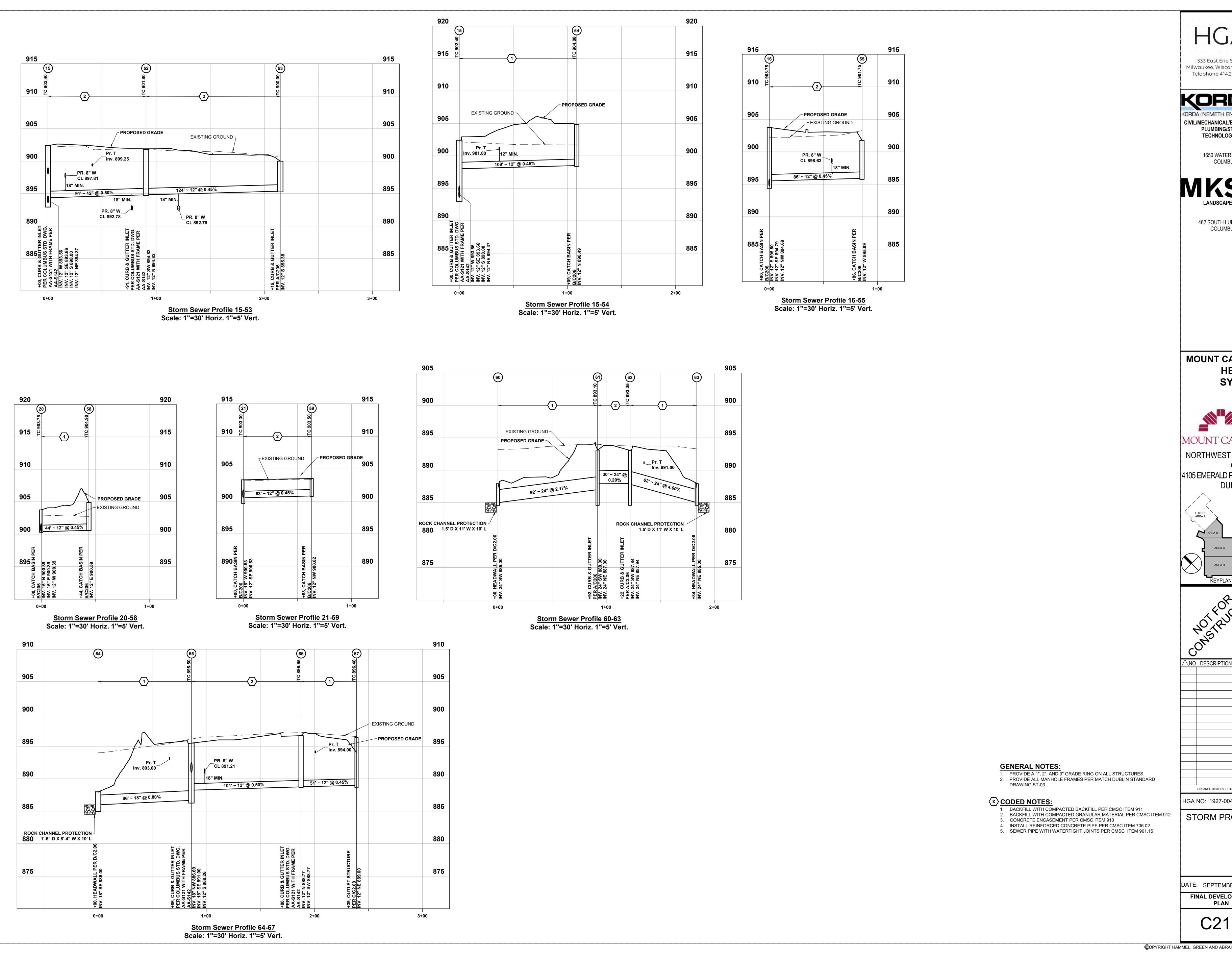
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ISSUANCE HISTORY - THIS SHEET

HGA NO: 1927-004-00

STORM PROFILE

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT PLAN



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**MOUNT CARMEL** HEALTH SYSTEM

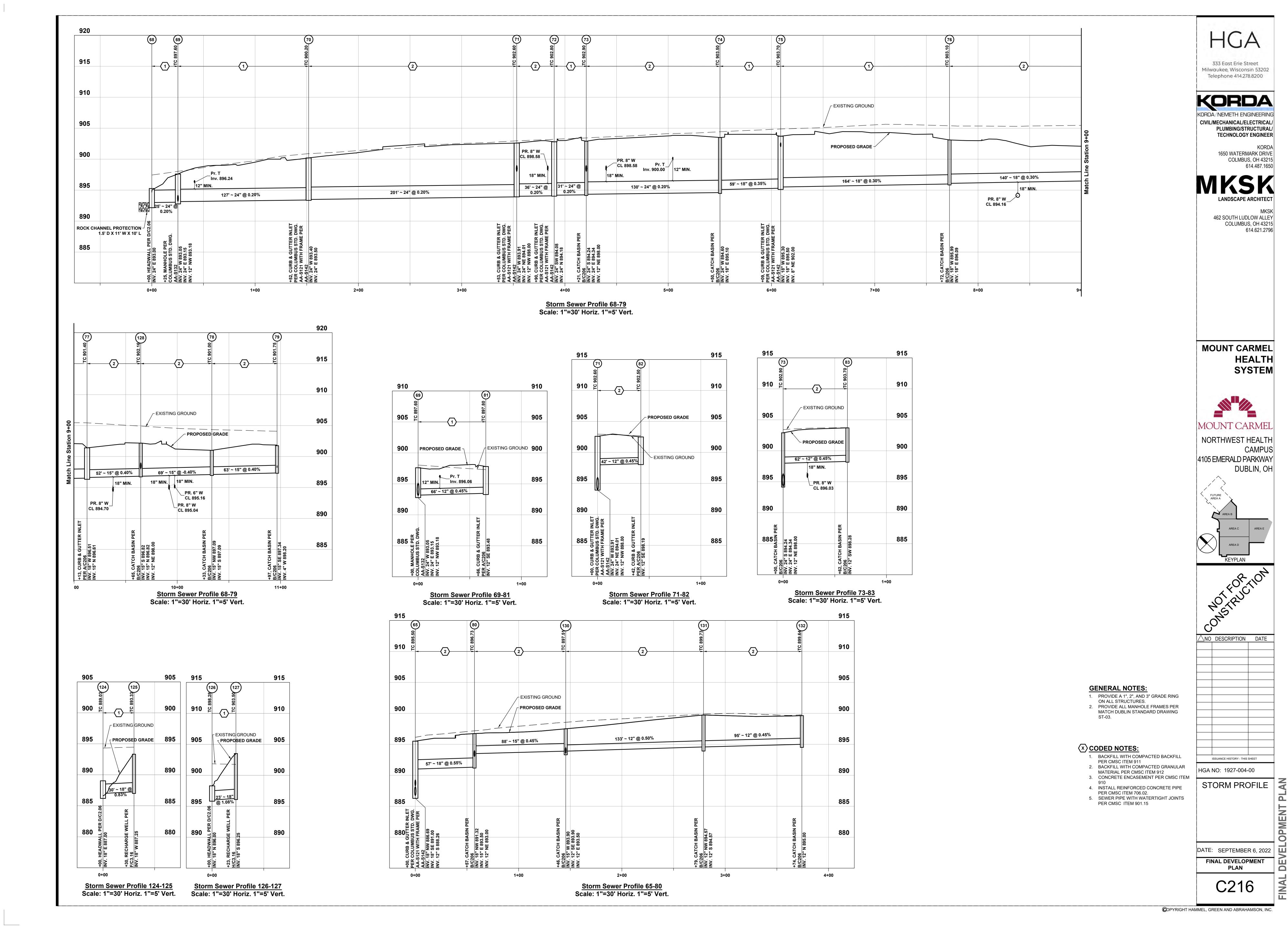
MOUNT CARMEL NORTHWEST HEALTH CAMPUS 4105 EMERALD PARKWAY DUBLIN, OH

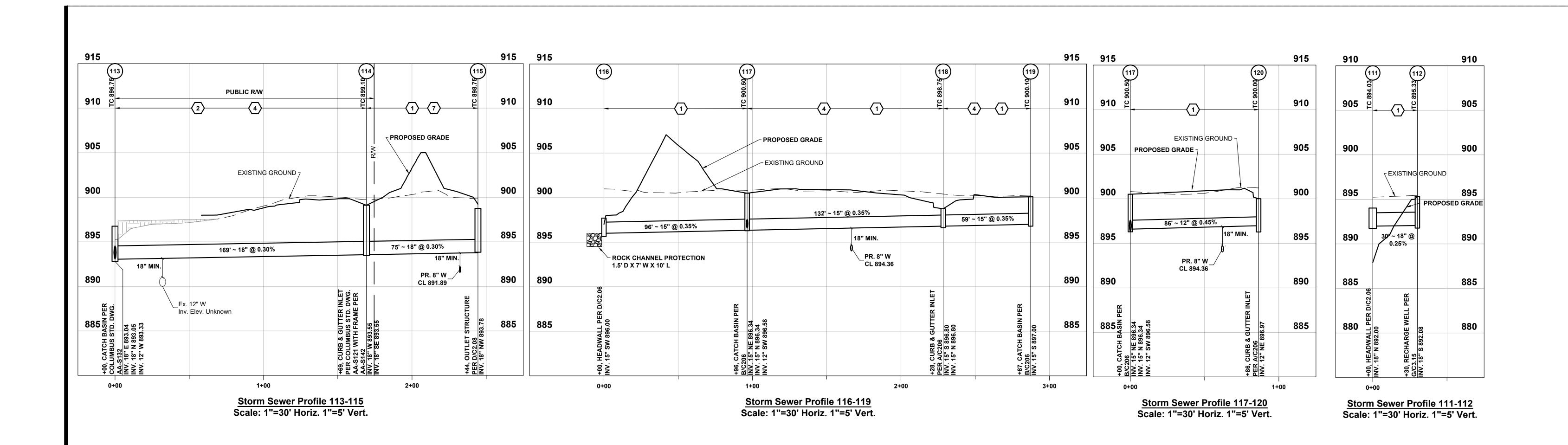
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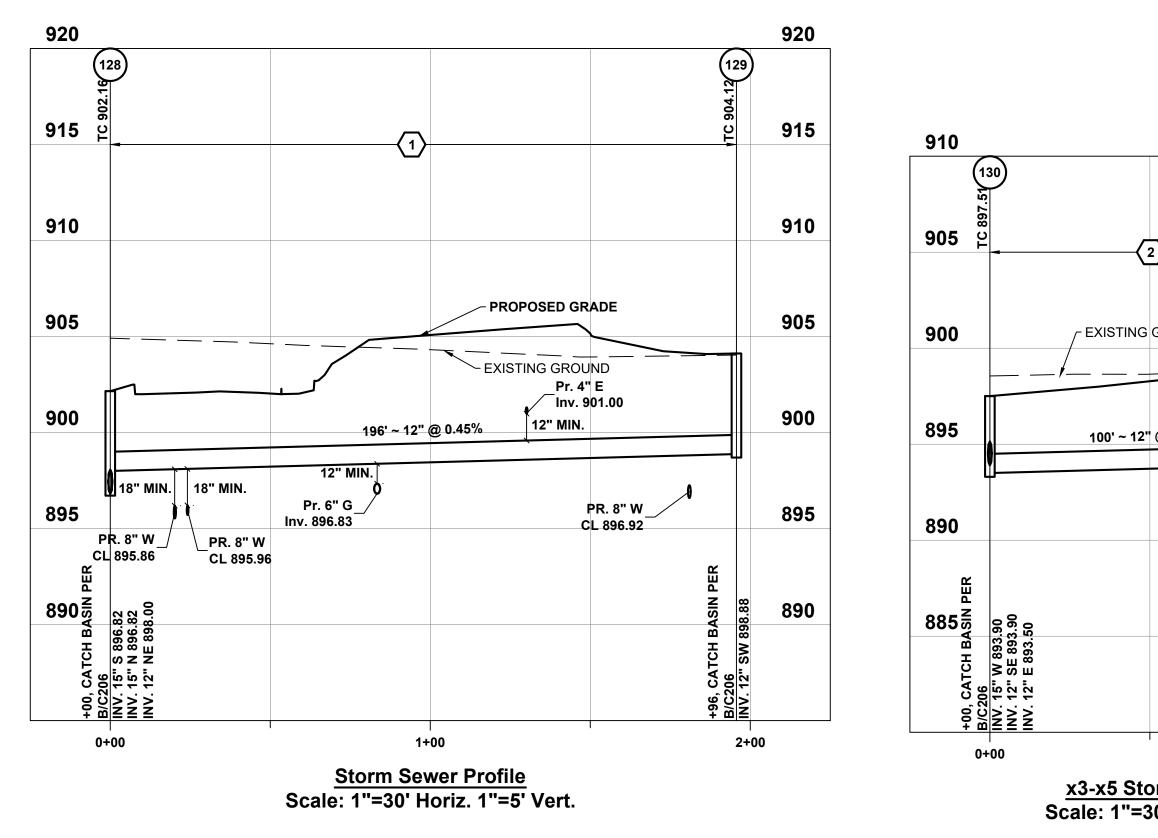
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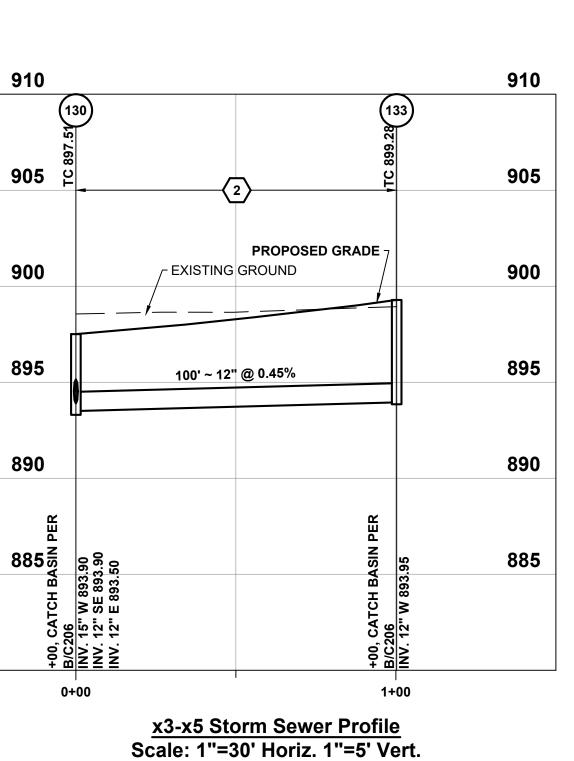
STORM PROFILE

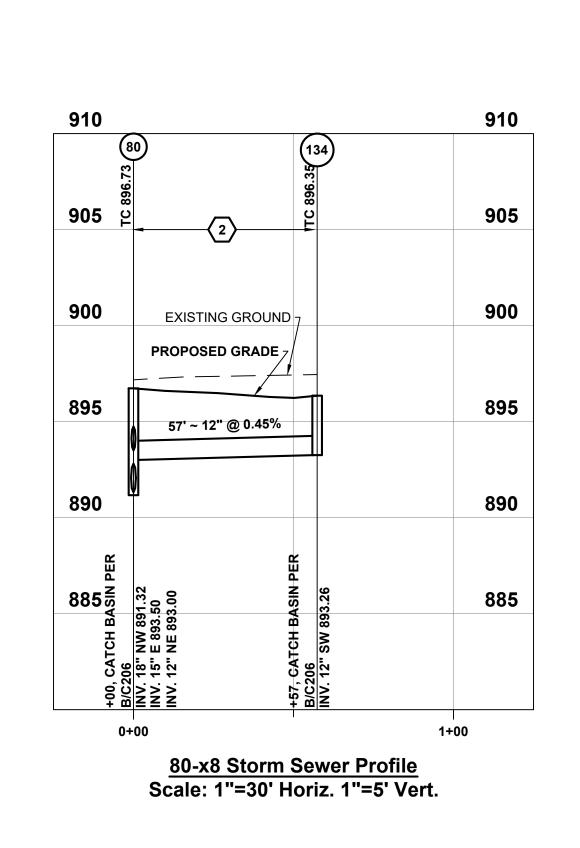
DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT

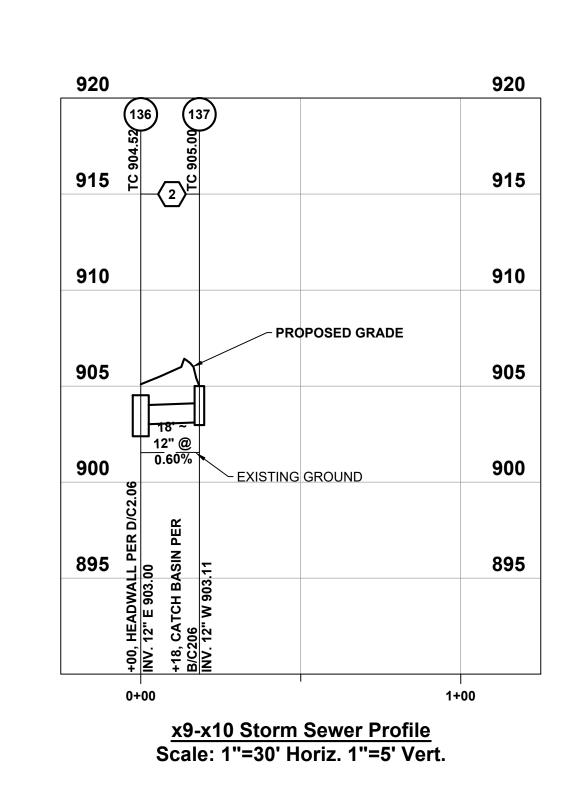












**GENERAL NOTES:** 

1. PROVIDE A 1", 2", AND 3" GRADE RING ON ALL STRUCTURES. 2. PROVIDE ALL MANHOLE FRAMES PER MATCH DUBLIN STANDARD DRAWING ST-03.

X CODED NOTES:

BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911 2. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912 3. CONCRETE ENCASEMENT PER CMSC ITEM 910 4. INSTALL REINFORCED CONCRETE PIPE PER CMSC ITEM 706.02.

5. SEWER PIPE WITH WATERTIGHT JOINTS PER CMSC ITEM 901.15

PLAN

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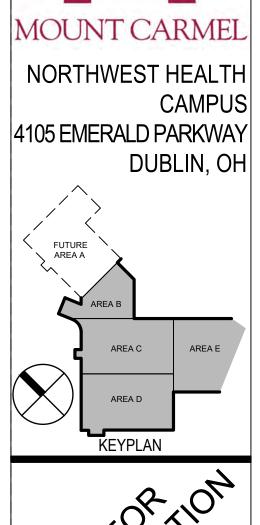
333 East Erie Street Milwaukee, Wisconsin 53202 Telephone 414.278.8200

KORDA/NEMETH ENGINEERING CIVIL/MECHANICAL/ELECTRICAL/ PLUMBING/STRUCTURAL/ **TECHNOLOGY ENGINEER** 

> 1650 WATERMARK DRIVE COLMBUS, OH 43215 614.487.1650

462 SOUTH LUDLOW ALLEY COLUMBUS, OH 43215 614.621.2796

**MOUNT CARMEL HEALTH** SYSTEM



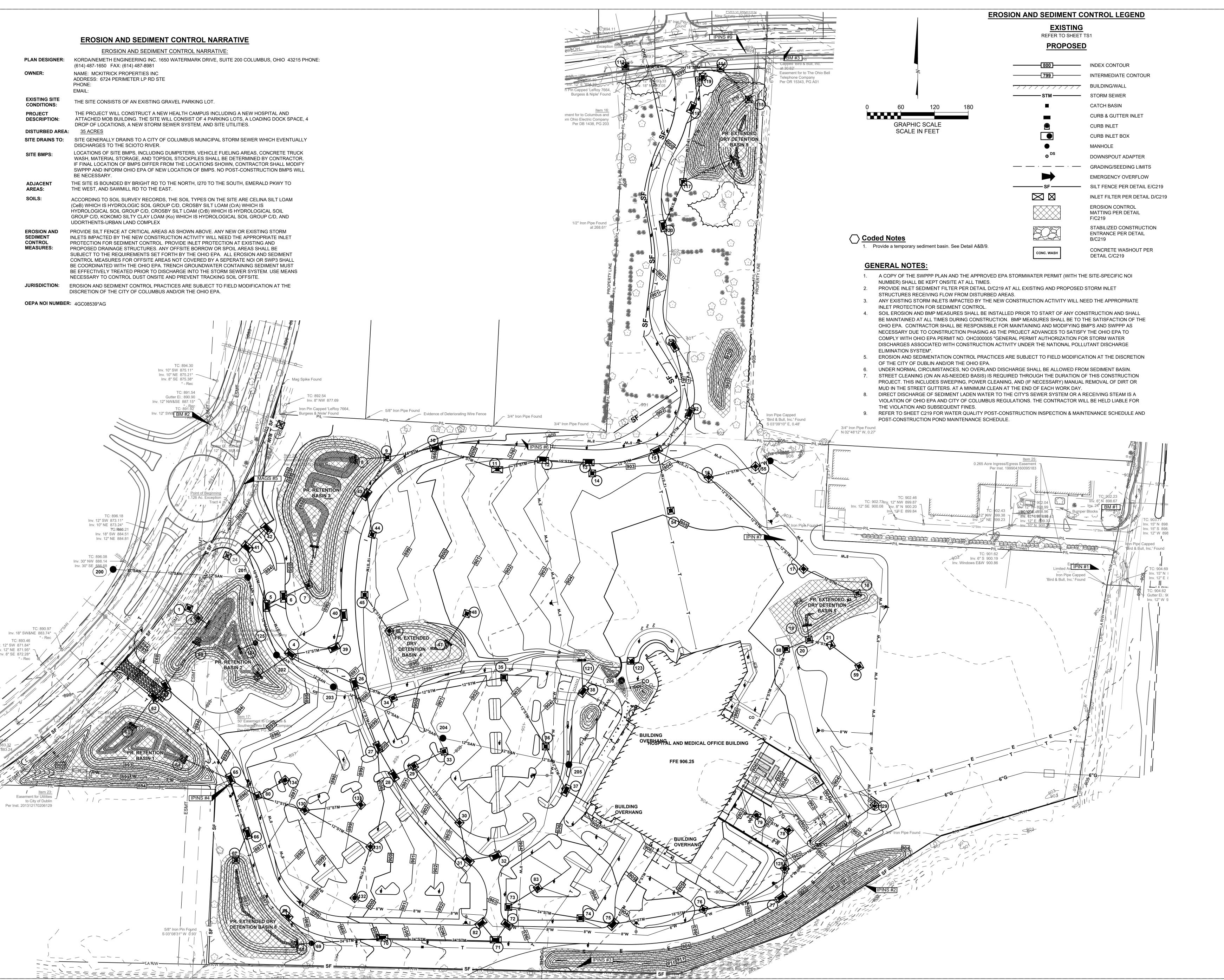
NO DESCRIPTION DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 1927-004-00

STORM PROFILE

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT



HGA

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MKSK LANDSCADE ADCHITECT

> MKSK 462 SOUTH LUDLOW ALLEY COLUMBUS, OH 43215 614.621.2796

MOUNT CARMEL
HEALTH
SYSTEM

NORTHWEST HEALTH
CAMPUS
4105 EMERALD PARKWAY
DUBLIN, OH

AREA C AREA E

AREA D

KEYPLAN

NO DESCRIPTION DATE

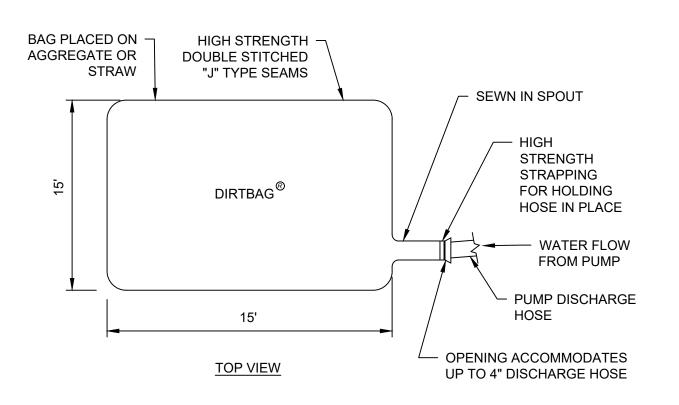
HGA NO: 1927-004-00

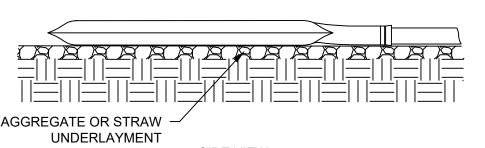
ISSUANCE HISTORY - THIS SHEET

SEDIMENT &
EROSION
CONTROL PLAN

DATE: SEPTEMBER 6, 2022

FINAL DEVELOPMENT
PLAN





1. THE PUMPING OR DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. 2. ALL INLETS RECEIVING FLOW FROM RUNOFF, PUMPING ACTIVITIES, OR OTHER DIRECT DISCHARGES SHALL BE FITTED WITH AN INLET PROTECTION DEVICE THAT IS PROPERLY SIZED AND SECURED TO REDUCE THE DISCHARGE OF SEDIMENT INTO THE STORM SEWER AND RECEIVING STREAM. INLET PROTECTION IS REQUIRED ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT

THE INLET IS TRIBUTARY TO ANY DOWNSTREAM EROSION AND SEDIMENT CONTROLS. DISCHARGE HOSES USED DURING PUMPING ACTIVITIES SHALL BE FITTED WITH SEDIMENT BAGS THAT ARE PROPERLY SIZED PER MANUFACTURER'S RECOMMENDATIONS REGARDLESS OF WHAT OTHER SEDIMENT CONTROLS ARE IN PLACE FURTHER DOWNSTREAM. SEDIMENT BAGS MUST BE PROPERLY SECURED TO THE DISCHARGE HOSE AND PLACED OVER VEGETATED AREAS, WHERE FEASIBLE, DURING DISCHARGE. SEE DETAIL ABOVE OF A TYPICAL SEDIMENT BAG INSTALLATION.

**INSTALLATION:** 

REMOVE GRATE.

3. REINSTALL GRATE.

REMOVE GRATE.

C) VAC-UNIT

REINSTALL BAG.

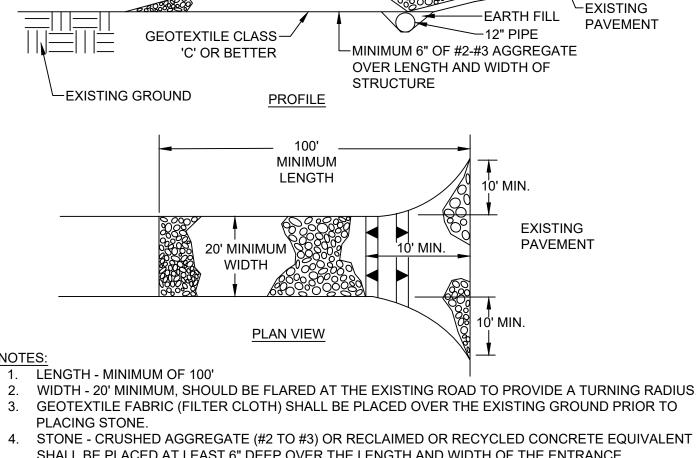
REINSTALL GRATE

RINSE WITH WATER.

A) PICK UP BAG AND DUMP IT.

# **DETAIL**

N.T.S.



MOUNTABLE BERM (6" MIN.)

N.T.S.

WIDTH - 20' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS 3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO

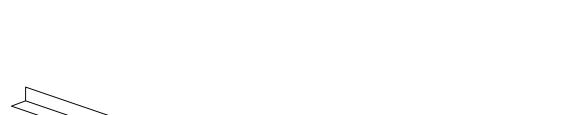
SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT

TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY. 8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR

## DETAIL

STABILIZED CONSTRUCTION ENTRANCE



REMOVE GRATE.

3. REINSTALL GRATE.

. REMOVE GRATE.

C) VAC-UNIT

5. REINSTALL BAG.

6. REINSTALL GRATE.

RINSE WITH WATER.

7. REINSTALL BONNET GUARD.

2. INSTALL BAG (RESTS ON LIP OF CASTING).

**BETWEEN GRATE & BONNET CASTING** 

3. BAG CAN BE CLEANED SEVERAL WAYS:

B) SHOVELING DEBRIS OUT OF BAG.

4. SHAKE LOOSE DEBRIS OUT OF BAG OR

N.T.S.

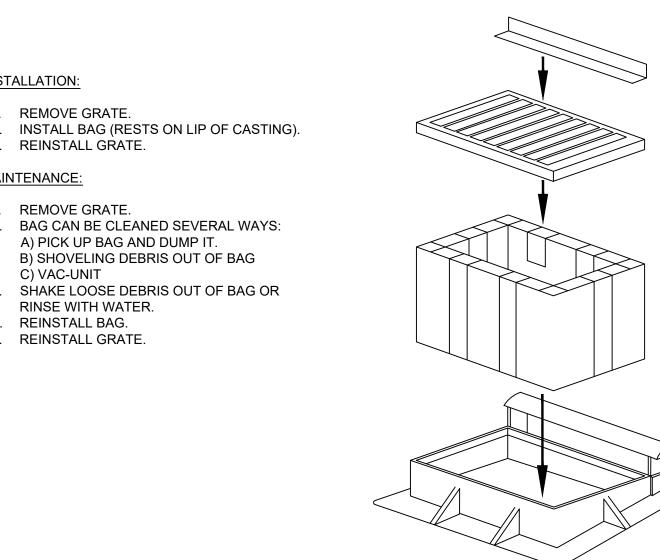
4. INSTALL BONNET GUARD WITH TABS

REMOVE THE BONNET GUARD.

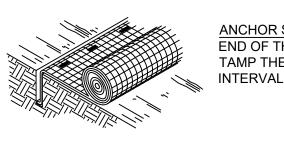
A) PICK UP BAG AND DUMP IT.

**INSTALLATION:** 

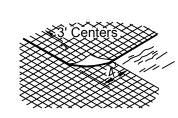
MAINTENANCE:



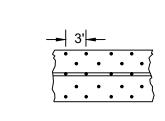
DETAIL  $^{/}$  INLET FILTER (BELOW GRATE INLET PROTECTION)

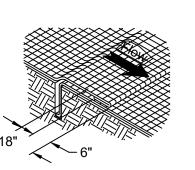


ANCHOR SLOT: BURY THE UP-CHANNEL END OF THE NET IN A 6" DEEP TRENCH. TAMP THE SOIL FIRMLY. STAPLE AT 12" INTERVALS ACROSS THE NET.

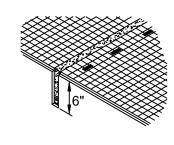


VERLAP: OVERLAP EDGES OF THE STRIPS AT LEAST 4". STAPLE EVERY 3 FEET DOWN THE CENTER OF THE STRIP.

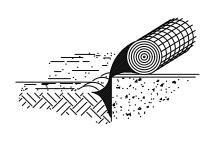




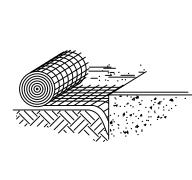
DINING STRIPS: INSERT THE NEW ROLL OF NET IN A TRENCH, AS WITH THE ANCHOR SLOT. OVERLAP THE UP-CHANNEL END OF THE PREVIOUS ROLL 18" AND TURN THE END UNDER 6". STAPLE THE END OF THE THE PREVIOUS ROLL JUST BELOW THE ANCHOR SLOT AND AT THE END AT 12" INTERVALS.



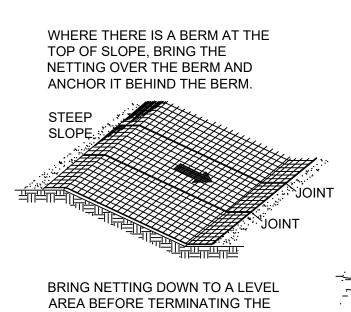
CHECK SLOTS: ON ERODIBLE SOILS OR STEEP SLOPES, CHECK SLOTS SHOULD BE MADE EVERY 15 FEET. INSERT A FOLD OF THE NET INTO A 6" TRENCH AND TAMP FIRMLY. STAPLE AT 12" INTERVALS ACROSS THE NET. LAY THE NET SMOOTHLY ON THE SURFACE OF THE SOIL- DO NOT STRETCH THE NET, AND DO NOT ALLOW WRINKLES.



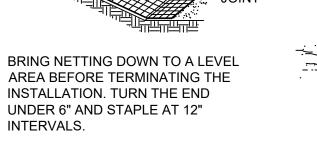
STRUCTURES: PLACE THE END OF NET IN A 6" SLOT ON THE STRUCTURE. FILL THE TRENCH AND TAMP FIRMLY. ROLL THE NET UP THE CHANNEL. PLACE STAPLES AT 12" INTERVALS ALONG THE ANCHOR END OF THE NET.

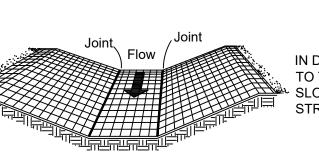






INTERVALS.





IN DITCHES, APPLY NETTING PARALLEL TO THE DIRECTION OF FLOW. USE CHECK SLOTS EVERY 15 FEET. DO NOT JOIN STRIPS IN THE CENTER OF THE DITCH

ON SHALLOW SLOPES (≤5:1),

STRIPS OF NETTING MAY BE

APPLIED ACROSS THE SLOPE.

ON STEEP SLOPES (>5:1), APPLY

STRIPS OF NETTING PARALLEL

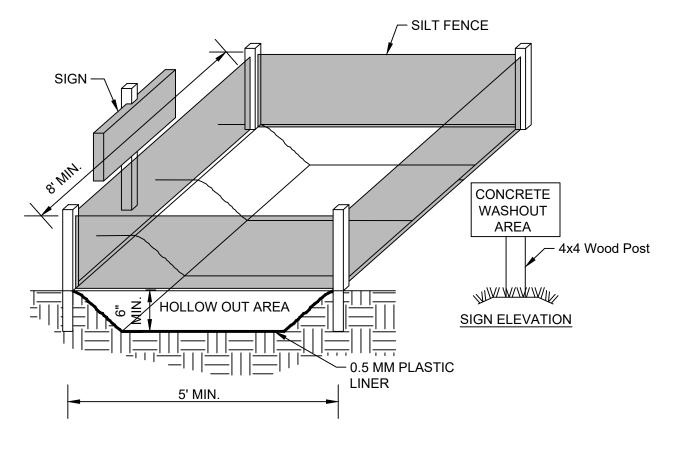
TO THE DIRECTION OF FLOW

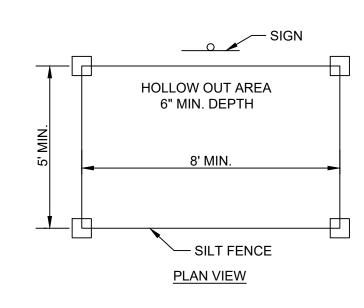
AND ANCHOR SECURELY.

REQUIREMENTS.



N.T.S.





CONCRETE TRUCKS SHALL UTILIZE AREAS TO WASHOUT TRUCKS.

ACCUMULATED CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED PROPERLY.

- PLACE PLASTIC LINER OVER THE ENTIRE HOLLOW OUT AREA PRIOR TO USE. 4. PROVIDE ITEMS NOTED ABOVE INCLUDING REMOVAL OF CONCRETE WASHOUT UPON COMPLETION OF THE PROJECT AS NOTED IN THE BID
- FILL HOLLOW AREA TO A DEPTH OF 4 TO 6 INCHES WITH CMSC ITEM 703 AGGREGATE, SIZE #57, #2, OR #4.

**STORAGE** 

**INSTALLATION WITHOUT TRENCHING** 

FREQUENCY

**EVERY 6 MONTHS** 

**EVERY 6 MONTHS** 

**EVERY 6 MONTHS** 

4"X6" TRENCH WITH

COMPACTED

BACKFILL

BURIED DETENTION/WATER QUANTITY POST-CONSTRUCTION

**INSPECTION & MAINTENANCE SCHEDULE** 

OWNER'S RESPONSIBILITY

JNDERGROUND DETENTION SYSTEMS NATURALLY COLLECT SEDIMENT, INCLUDING GRAVEL, SAND, AND

UNDERGROUND DETENTION SYSTEM SHOULD BE KEPT FREE OF EXCESSIVE DEBRIS, LITER, AND SEDIMENT

THE UNDERGROUND DETENTION SYSTEM SHOULD BE INSPECTED BIANNUALLY (BY VISUAL OR CAMERA

MUD, AS WELL AS OTHER DEBRIS, SUCH AS LITTER. TO MAINTAIN ITS CAPACITY AND FUNCTION, THE

NSPECTION) FOR THE FIRST YEAR AND THEN ANNUALLY FOR SUBSEQUENT YEARS TO ENSURE THE

SYSTEM IS FREE OF SEDIMENT AND DEBRIS. IF FIRST YEAR INSPECTIONS INDICATE HIGH LEVELS OF SEDIMENT ACCUMULATION (REQUIRING MORE THAN ONE REMOVAL OF SEDIMENT/DEBRIS BY JETVAC PROCESS IN THE FIRST YEAR), THE FREQUENCY OF INSPECTION SHOULD BE MODIFIED TO BE BI-ANNUAL

UNTIL LOWER LEVELS OF SEDIMENT ACCUMULATION ARE OBSERVED BETWEEN INSPECTION PERIODS.

REMOVE ACCUMULATED

INSPECT AND REMOVE (AS

SEWER SYSTEM TO ENSURE

STRUCTURE.

SEWER OUTFALL.

**ELEVATION. REMOVE** 

MAINTAIN THE STORMWATER CONTROL FACILITY OR FACILITIES IN GOOD WORKING CONDITION ACCEPTABLE TO THE CITY AND IN ACCORDANCE WITH THE SCHEDULE OF LONG-TERM MAINTENANCE

THE PROPERTY OWNER SHALL MAINTAIN COPIES OF COMPLETE, DATED AND SIGNED INSPECTION

MAINTENANCE ACTIVITIES PERFORMED BY THE PROPERTY OWNER TO REMEDY THE DEFICIENCIES

OBSERVED DURING PRIOR INSPECTIONS. THE MAINTENANCE INSPECTION LOG SHALL BE KEPT ON

ACTIVITIES IN THE STORMWATER CONTROL FACILITY MAINTENANCE PLAN.

PROPERTY AND SHALL BE MADE AVAILABLE TO THE CITY UPON REQUEST.

SEDIMENT AND DEBRIS REMOVED FROM THE FEATURES SHOULD BE STORED PROPERLY UNTIL DISPOSAI

ACCORDING TO LOCAL OR OTHER GOVERNING REGULATIONS. TO ENSURE NO EXPOSURE TO STORMWATEF

RUNOFF. THE FOLLOWING TABLE INDICATES ITEMS TO BE INSPECTED AND THEIR FREQUENCY WHICH MAY

MAINTENANCE PROCEDURE

SEDIMENT AND DEBRIS FROM THE

NECESSARY) DEBRIS FROM THE

POSITIVE FLOW TO THE STORM

CHECK WATER LEVEL ON WET

MAINTENANCE INSPECTION LOGS

THE PROPERTY OWNER, ITS ADMINISTRATORS, EXECUTORS, SUCCESSORS, HEIRS OR ASSIGNS SHALL

CHECKLISTS IN A MAINTENANCE INSPECTION LOG, ALONG WITH RECORDED DATES AND DESCRIPTIONS OF

1. SET UP ANY NECESSARY SAFETY EQUIPMENT AROUND THE ACCESS PORT OR GRATE AS STIPULATED BY

LOCAL ORDINANCES. SAFETY EQUIPMENT SHOULD NOTIFY PASSING PEDESTRIAN AND ROAD TRAFFIC THAT  $\|$ 

3. WITHOUT ENTERING THE VESSEL, LOOK DOWN INTO THE CHAMBER TO INSPECT THE INSIDE. MAKE NOTE

4. USING THE FLOATABLES PORT FOR ACCESS, REMOVE OIL AND FLOATABLES STORED ON THE SURFACE

5. USING A SEDIMENT PROBE SUCH AS A SLUDGE JUDGE®, MEASURE THE DEPTH OF SEDIMENT THAT HAS

UNDERGROUND SYSTEM HAS LOST 20% OR MORE OF STORAGE CAPACITY, SEDIMENT REMOVAL NEEDS TO

6. ONCE ALL FLOATABLES HAVE BEEN REMOVED, DROP THE VACUUM HOSE TO THE BASE OF THE SUMP VIA

THE CENTRAL ACCESS PORT. VACUUM OUT THE SEDIMENT AND GROSS DEBRIS OFF THE SUMP FLOOR.

8. ON THE MAINTENANCE LOG PROVIDED RECORD THE DATE, UNIT LOCATION, ESTIMATED VOLUME OF FLOATABLES AND GROSS DEBRIS REMOVED. AND THE DEPTH OF SEDIMENT MEASURED. ALSO NOTE ANY

COLLECTED IN THE SUMP OF THE VESSEL AND RECORD IT IN THE MAINTENANCE LOG. IF THE

WELL TO ASSURE CORRECT

ACCUMULATED SEDIMENT.

6. USE OF ROLL AWAY OR OTHER PORTABLE CONTAINERS IS AN ACCEPTABLE ALTERNATIVE (AND HIGHLY ENCOURAGED) PROVIDED THEY ARE

DRIVEN SECURELY INTO THE GROUND 12" (MINIMUM).

STAKES AND EXTEND 8" OF

- OVER THE FILTER MATERIAL

- 3/4" MIN. DRAIN

EXCAVATED TRENCH.

└─ 4" X 6" TRENCH

PONDING HT.

USED IN ACCORDANCE WITH NPDES GUIDELINES ON CONCRETE WASHOUT.

**DETAIL CONCRETE TRUCK WASHOUT AREA** 

CONTINUOUS SYNTHETIC -

- STEEL OR WOOD POST 32"

PONDING HT.

LENGTH MIN.

16" MAX.

FILTER FABRIC

\_ 2" X 2" STAKES, SPACED A MAXIMUM OF 10'-0" APART AND

CONSTRUCT SILT FENCE BEFORE UPSLOPE DISTURBANCE BEGINS. BRING ENDS OF SILT FENCE UPSLOPE SLIGHTLY SO THAT PONDING WATER WILL BE

N.T.S.

PREVENTED FROM FLOWING AROUND ENDS. . WHEN POSSIBLE PRESERVE VEGETATION 5 FEET UP UPSLOPE OF THE SILT FENCE. IF REMOVED, REESTABLISH WITHIN 7 DAYS FROM INSTALLATION OF FENCE. STAPLE FILTER MATERIAL TO

SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING

FILTER MATERIAL INTO THE 5. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT

POST, WITH A MINIMUM OF A 6 INCH OVERLAP, AND SECURELY SEALED. 6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES. 7. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER

8. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY

9. 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.

10. 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.

11. STRAW WATTLES AND COMPOST ROLLS TO BE A MINIMUM OF 12" IN DIAMETER

SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE

HEIGHT OF THE BARRIER. 3. ANY SEDIMENT DEPOSITS REMAINING AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

DETAIL

TRENCH DETAI

VARY FROM THAT NOTED ABOVE

INSPECTION ITEM

OUTLET STRUCTURE

STORM SEWER SYSTEM

PUMP STATION WET WELL

SEDIMENT CLEAN OUT PROCEDURES

2. REMOVE THE LIDS TO THE MANHOLE/STRUCTURE.

7. REMOVE THE VACUUM HOSE FROM THE VESSEL

9. SECURELY REPLACE THE GRATE OR LID.

OF THE WATER WITH THE VACTOR HOSE OR THE SKIMMER NET.

BE COMPLETED. THIS ROUGHLY EQUALS TO DEPTH OF SEDIMENT OF 16".

APPARENT IRREGULARITIES SUCH AS DAMAGED COMPONENTS OR BLOCKAGES.

WORK IS BEING DONE.

OF ANY IRREGULARITIES.

POST-CONSTRUCTION POND MAINTENANCE SCHEDULE

THE PROPOSED STORMWATER QUALITY OUTLET STRUCTURE IS A STORMWATER MP WHICH WILL REQUIRE ONGOING INSPECTION AND MAINTENANCE CLEANING. ESPONSIBILITY AND ASSURANCE OF PERIODIC MAINTENANCE AND THE CONTINUOUS FUNCTIONALITY OF THE CONTROL STRUCTURES IS PERPETUAL EGINNING WITH THE OWNER AT THE TIME OF INSTALLATION AND CONTINUING TO LL FUTURE OWNERS OF SAID PRIVATE STORM SEWER SYSTEM. GENERAL

VISUALLY INSPECT AND RELEASE CONTROL REMOVE SEDIMENT AND STRUCTURE

RECOMMENDATIONS ARE AS FOLLOWS:

MONTHLY AND AFTER RAINFALL EVENTS 0.5 NCHES OR GREATER OR IF STANDING WATER PERSISTS FOR MORE THAN 72 HOURS

N.T.S.

MAINTAIN DOCUMENTATION OF ALL INSPECTIONS NOTING WHEN MAINTENANCE IS PERFORMED. PROVIDE DOCUMENTATION TO CITY OF COLUMBUS UPON REQUEST.

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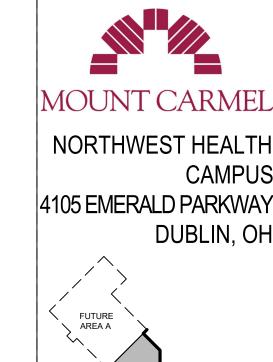
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TECHNOLOGY ENGINEER

**462 SOUTH LUDLOW ALLEY** COLUMBUS, OH 43215 614.621.2796

**MOUNT CARMEL HEALTH SYSTEM** 



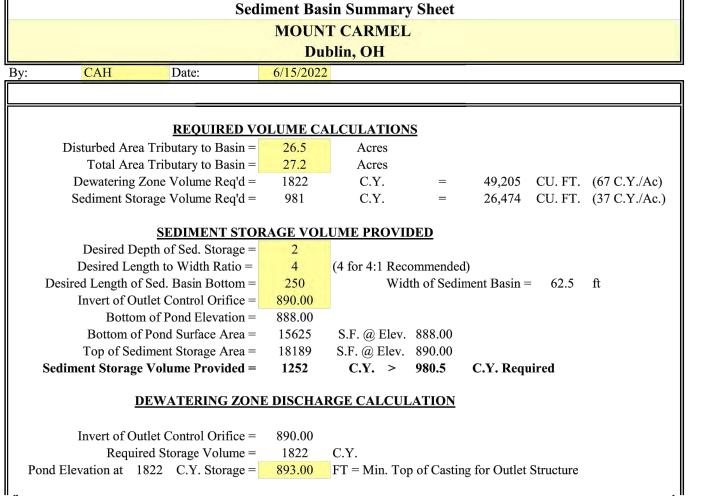
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HGA NO: 1927-004-00 SEDIMENT &

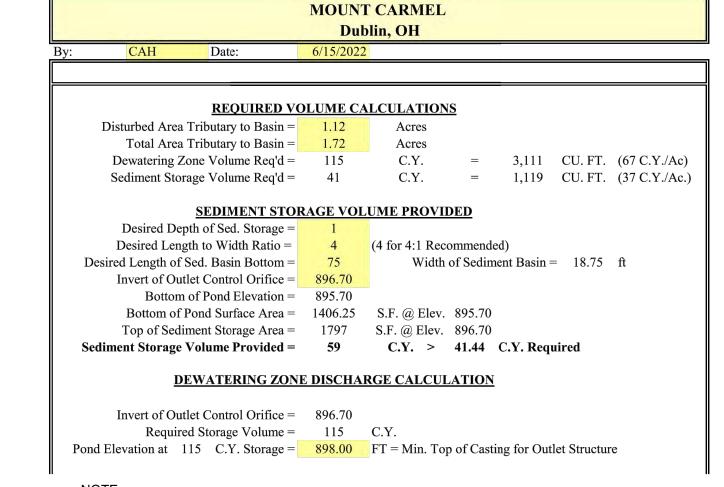
**EROSION** CONTROL PLAN **DETAILS** 

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT PLAN



NOTE:

1. PROVIDE 3" SIZE SKIMMER WITH A 1.4" DIAMETER ORIFICE FOR BOTH SEDIMENT BASINS.



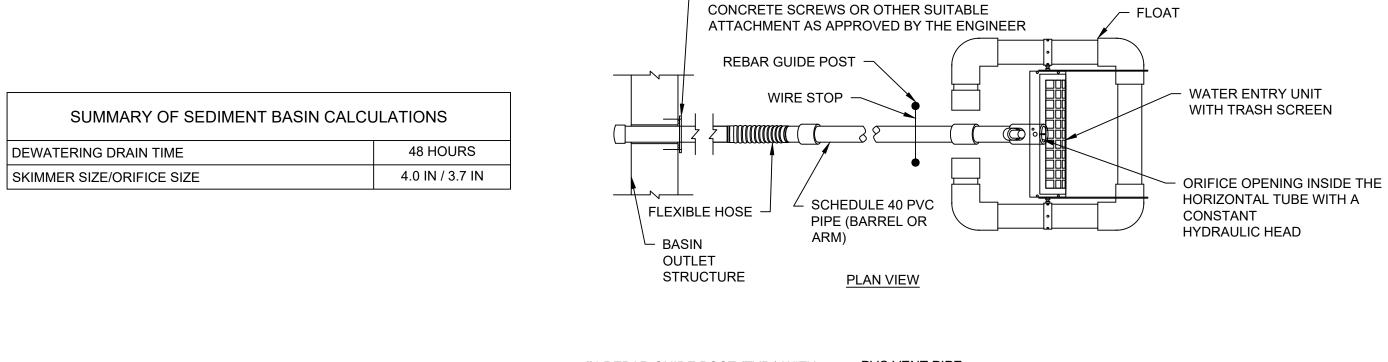
**Sediment Basin Summary Sheet** 

NOTE:

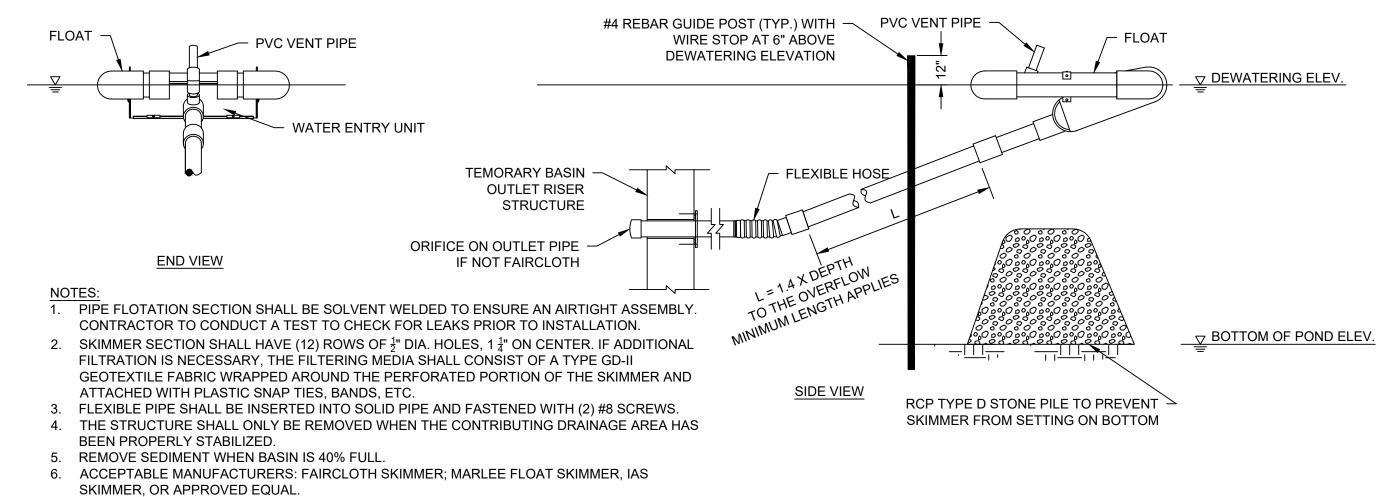
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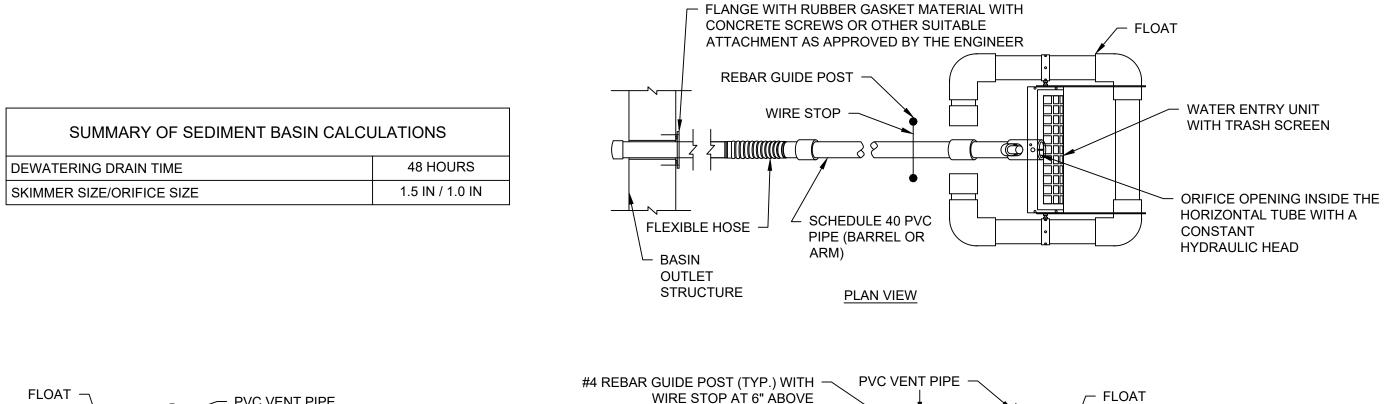


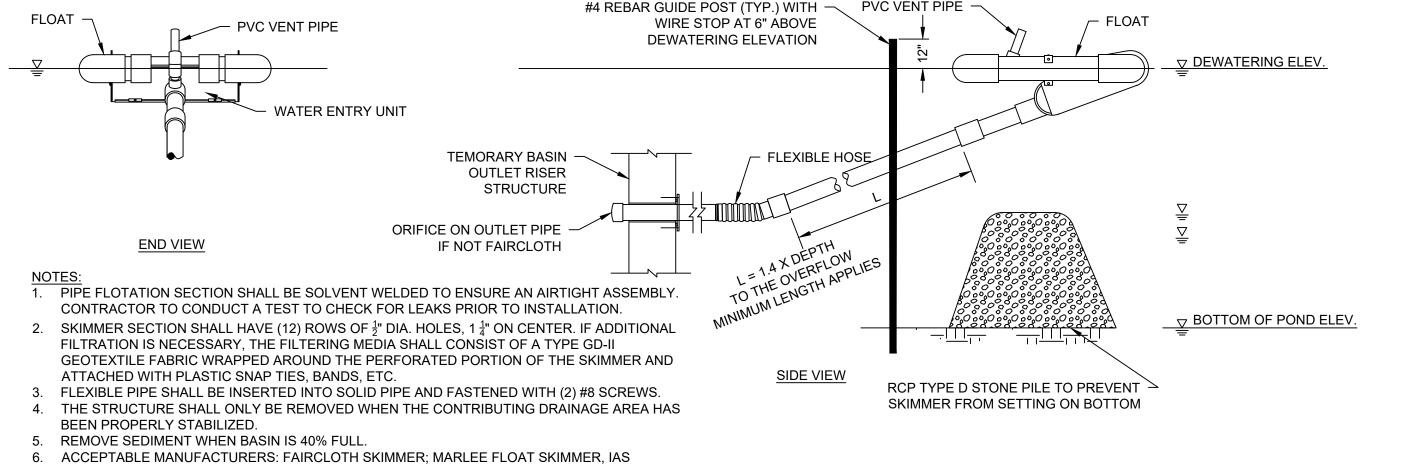
FLANGE WITH RUBBER GASKET MATERIAL WITH



DETAIL EMERALD PARKWAY - TEMPORARY SKIMMER

N.T.S.





**BRIGHT ROAD - TEMPORARY SKIMMER** 

SKIMMER, OR APPROVED EQUAL.

N.T.S.

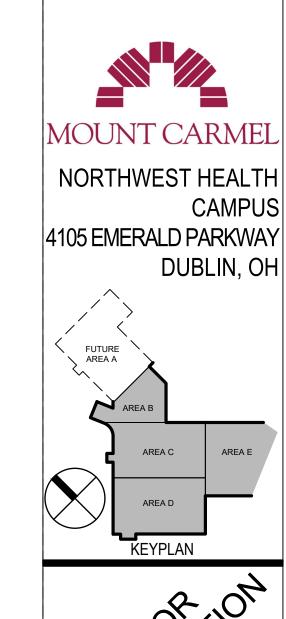
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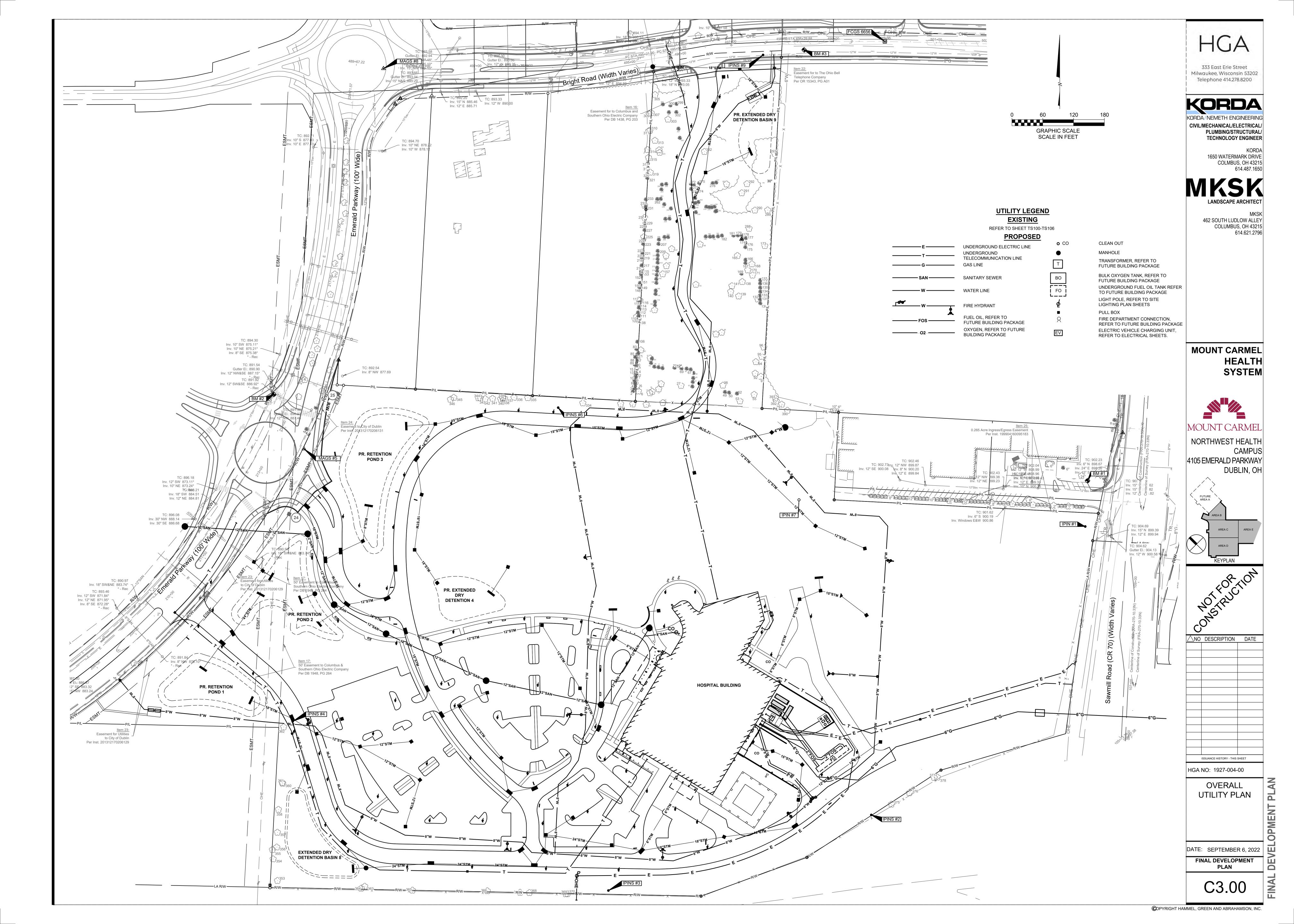
**MOUNT CARMEL HEALTH SYSTEM** 

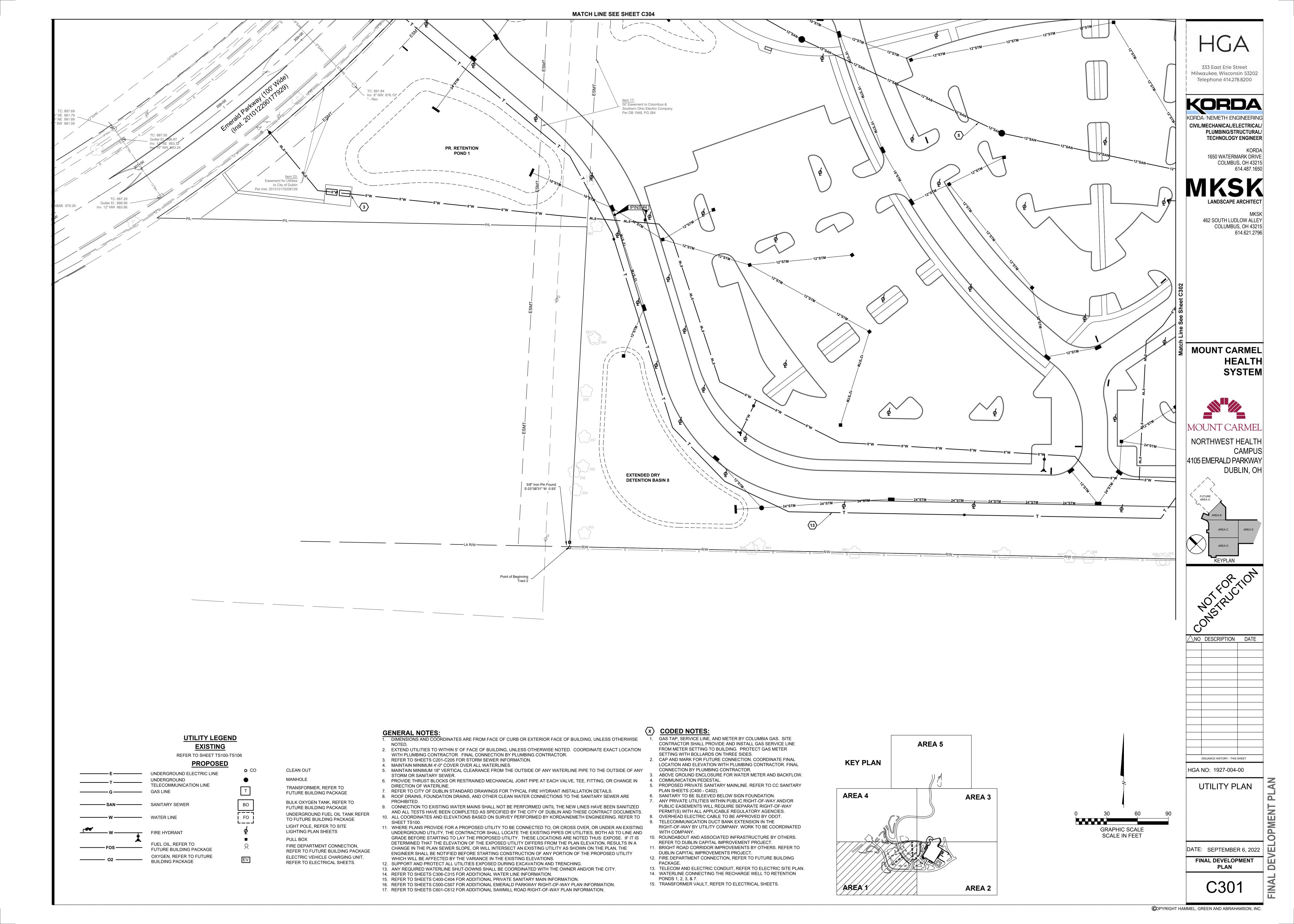


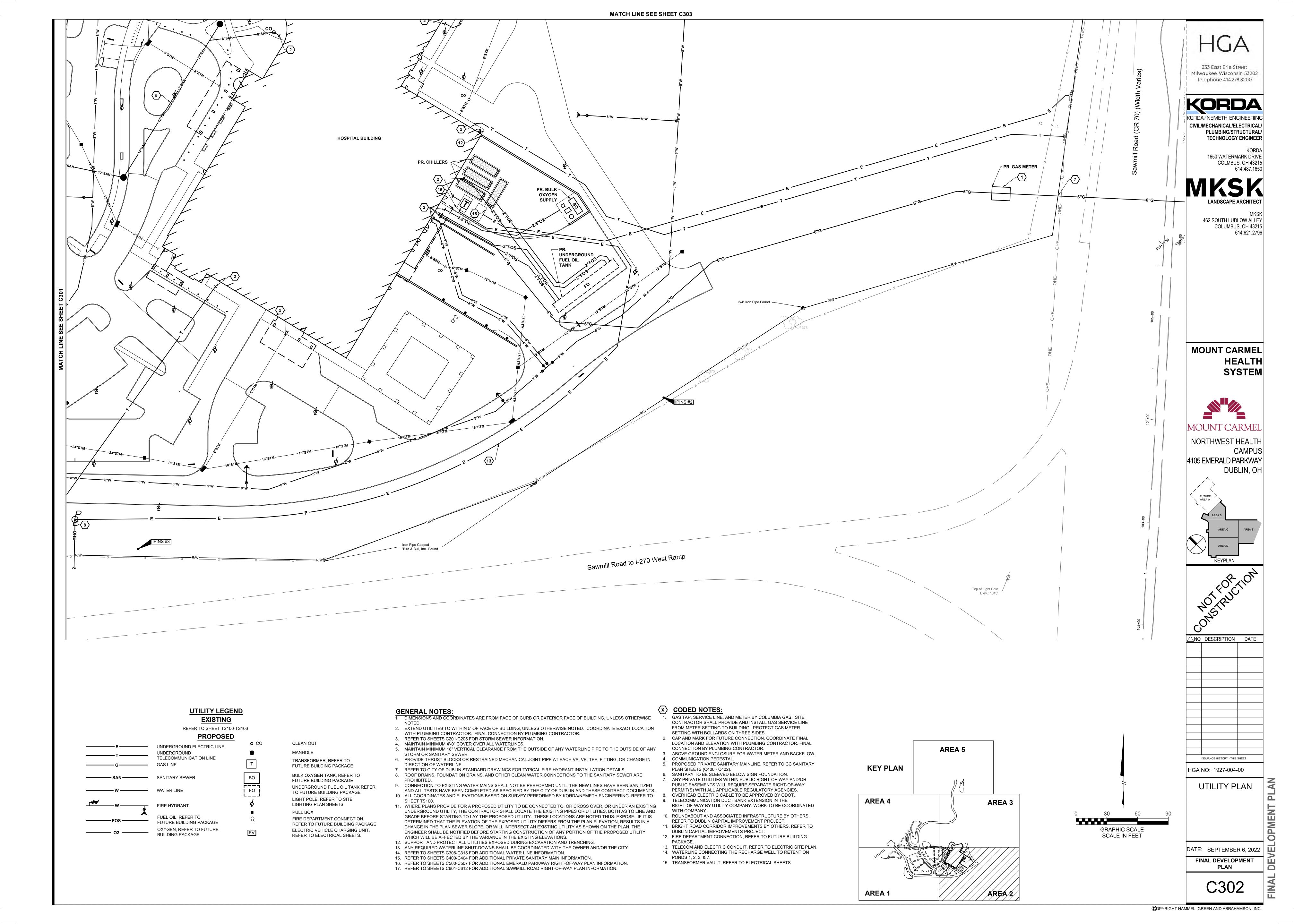
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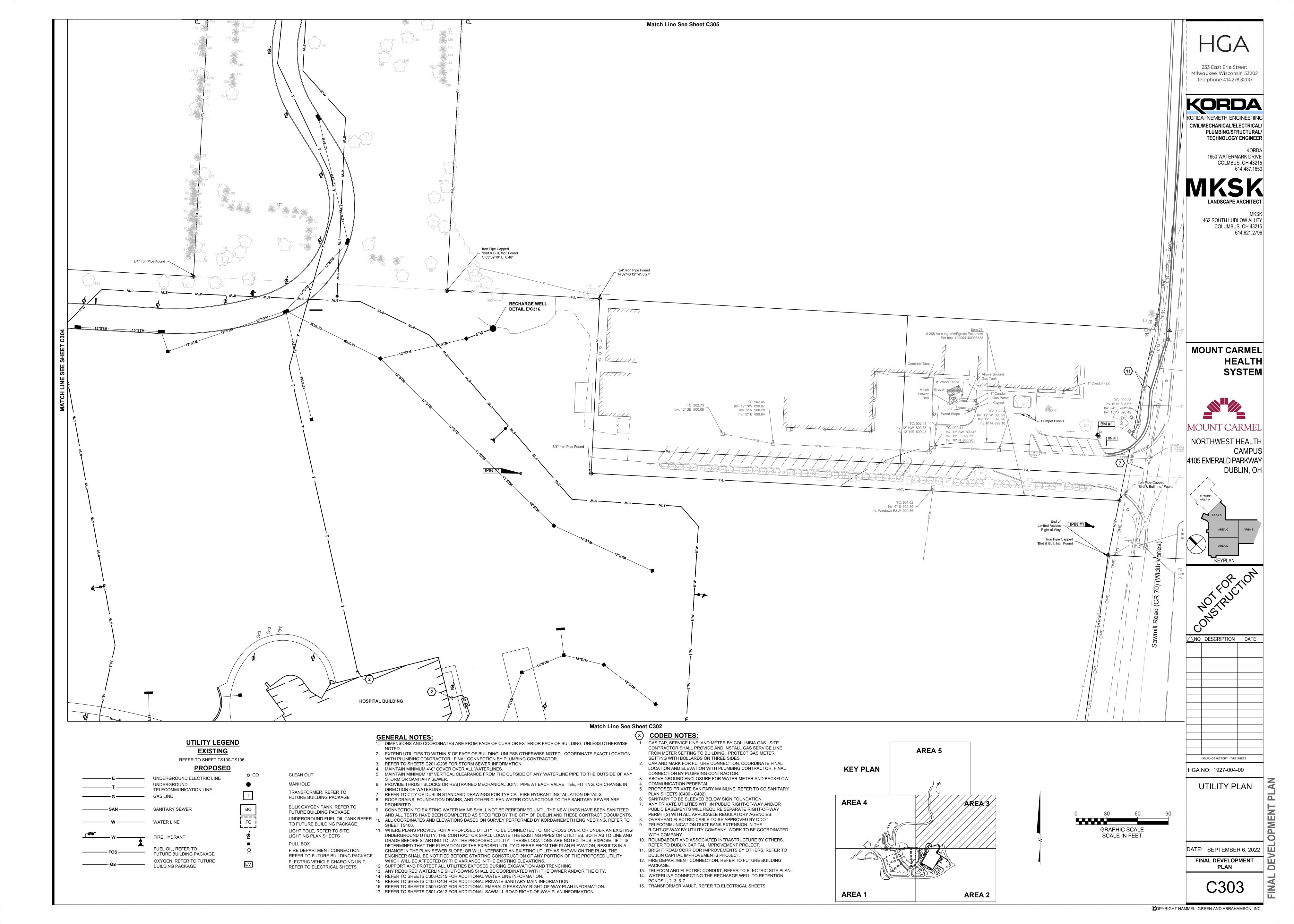
> SEDIMENT & **EROSION** CONTROL PLAN **DETAILS**

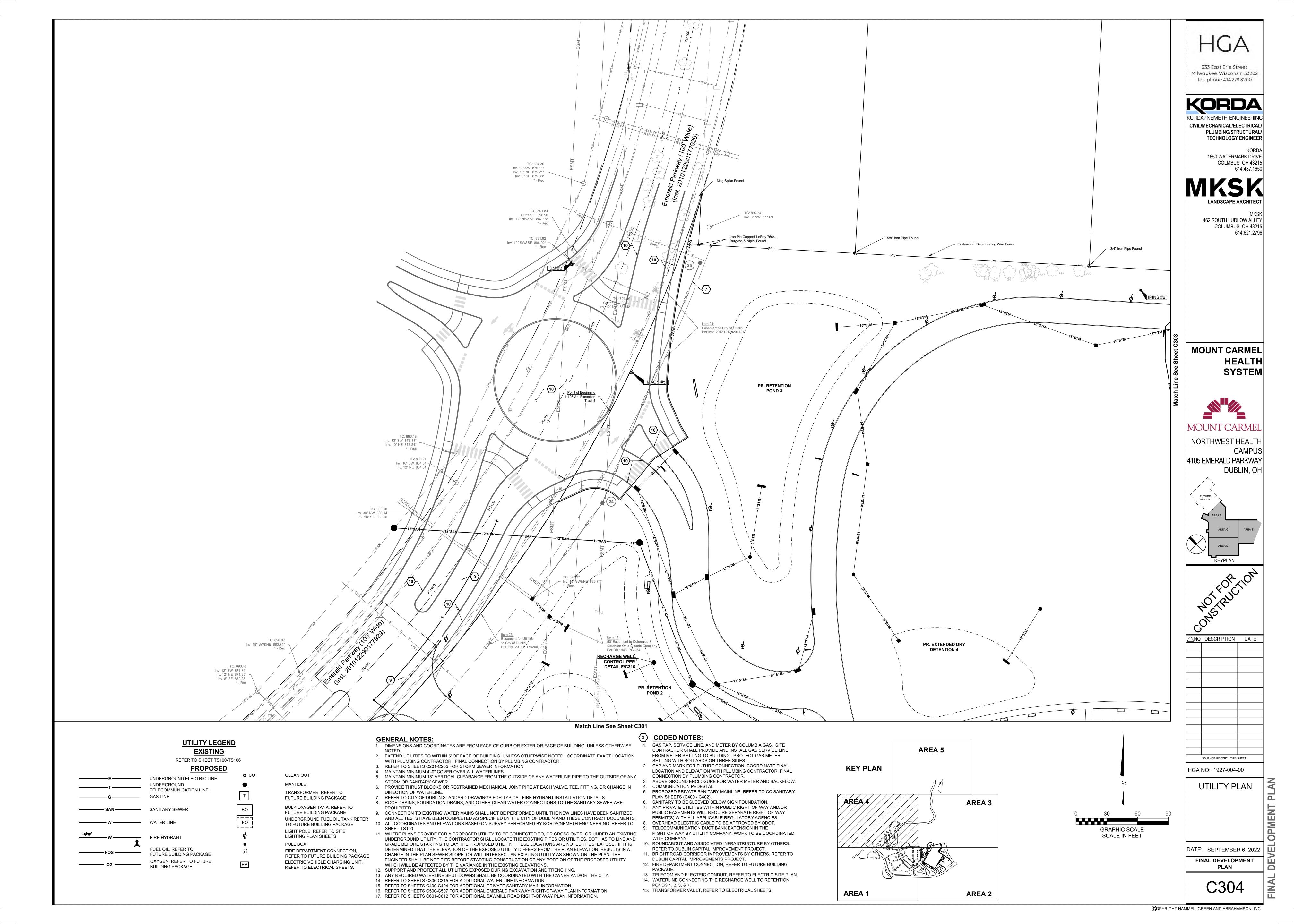
DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT

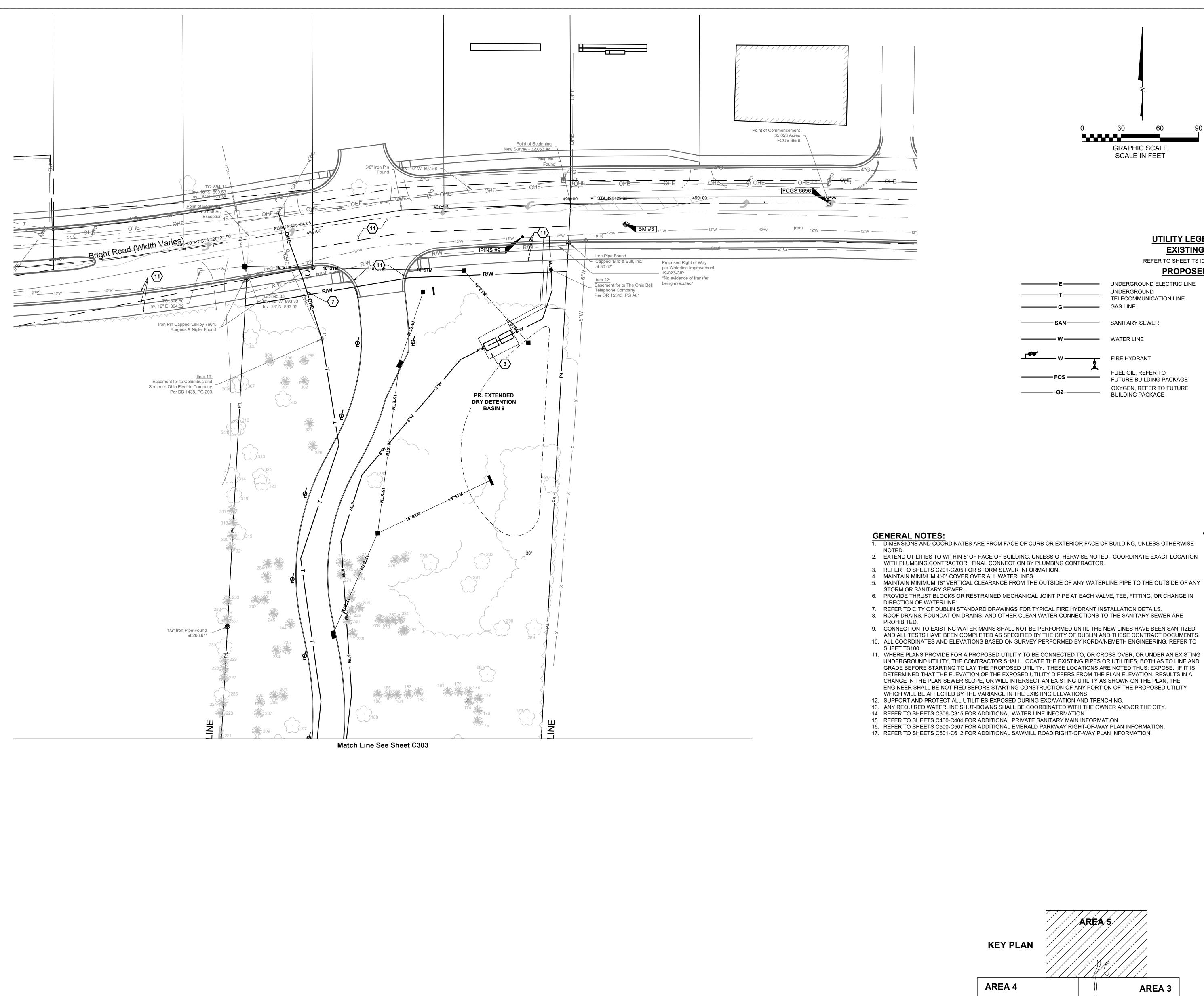


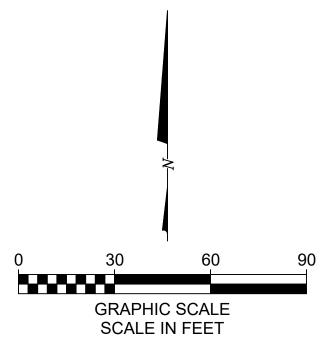












### **UTILITY LEGEND EXISTING**

REFER TO SHEET TS100-TS106

## **PROPOSED** UNDERGROUND ELECTRIC LINE UNDERGROUND TELECOMMUNICATION LINE SAN — SANITARY SEWER FUEL OIL, REFER TO FUTURE BUILDING PACKAGE OXYGEN, REFER TO FUTURE

**BUILDING PACKAGE** 

CLEAN OUT MANHOLE

TRANSFORMER, REFER TO **FUTURE BUILDING PACKAGE** BULK OXYGEN TANK, REFER TO FUTURE BUILDING PACKAGE UNDERGROUND FUEL OIL TANK REFER TO FUTURE BUILDING PACKAGE LIGHT POLE, REFER TO SITE LIGHTING PLAN SHEETS PULL BOX FIRE DEPARTMENT CONNECTION, REFER TO FUTURE BUILDING PACKAGE ELECTRIC VEHICLE CHARGING UNIT,

REFER TO ELECTRICAL SHEETS.

333 East Erie Street Milwaukee, Wisconsin 53202 Telephone 414.278.8200

KORDA/NEMETH ENGINEERIN CIVIL/MECHANICAL/ELECTRICAL PLUMBING/STRUCTURAL/ TECHNOLOGY ENGINEER

> 1650 WATERMARK DRIVE COLMBUS, OH 43215 614.487.1650

462 SOUTH LUDLOW ALLEY COLUMBUS, OH 43215 614.621.2796

**MOUNT CARMEL HEALTH SYSTEM** 



NORTHWEST HEALTH 4105 EMERALD PARKWAY

CONNECTION BY PLUMBING CONTRACTOR. 3. ABOVE GROUND ENCLOSURE FOR WATER METER AND BACKFLOW. 5. PROPOSED PRIVATE SANITARY MAINLINE. REFER TO CC SANITARY SANITARY TO BE SLEEVED BELOW SIGN FOUNDATION. ANY PRIVATE UTILITIES WITHIN PUBLIC RIGHT-OF-WAY AND/OR PUBLIC EASEMENTS WILL REQUIRE SEPARATE RIGHT-OF-WAY PERMIT(S) WITH ALL APPLICABLE REGULATORY AGENCIES. 8. OVERHEAD ELECTRIC CABLE TO BE APPROVED BY ODOT.

TELECOMMUNICATION DUCT BANK EXTENSION IN THE RIGHT-OF-WAY BY UTILITY COMPANY. WORK TO BE COORDINATED WITH COMPANY. 10. ROUNDABOUT AND ASSOCIATED INFRASTRUCTURE BY OTHERS. REFER TO DUBLIN CAPITAL IMPROVEMENT PROJECT.

GAS TAP, SERVICE LINE, AND METER BY COLUMBIA GAS. SITE

2. CAP AND MARK FOR FUTURE CONNECTION. COORDINATE FINAL

SETTING WITH BOLLARDS ON THREE SIDES.

CONTRACTOR SHALL PROVIDE AND INSTALL GAS SERVICE LINE FROM METER SETTING TO BUILDING. PROTECT GAS METER

LOCATION AND ELEVATION WITH PLUMBING CONTRACTOR. FINAL

11. BRIGHT ROAD CORRIDOR IMPROVEMENTS BY OTHERS. REFER TO DUBLIN CAPITAL IMPROVEMENTS PROJECT. 12. FIRE DEPARTMENT CONNECTION, REFER TO FUTURE BUILDING PACKAGE.

**(X)** CODED NOTES:

COMMUNICATION PEDESTAL.

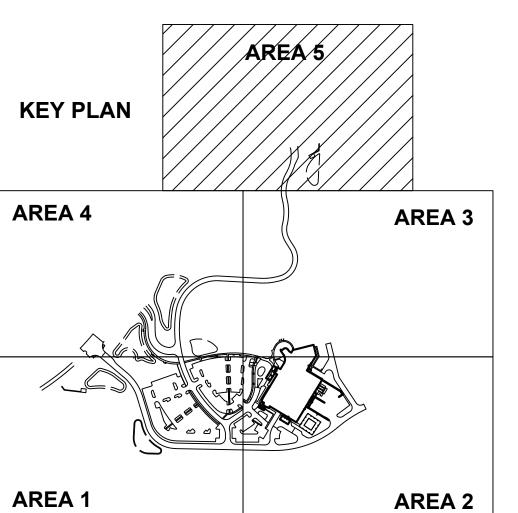
PLAN SHEETS (C400 - C402).

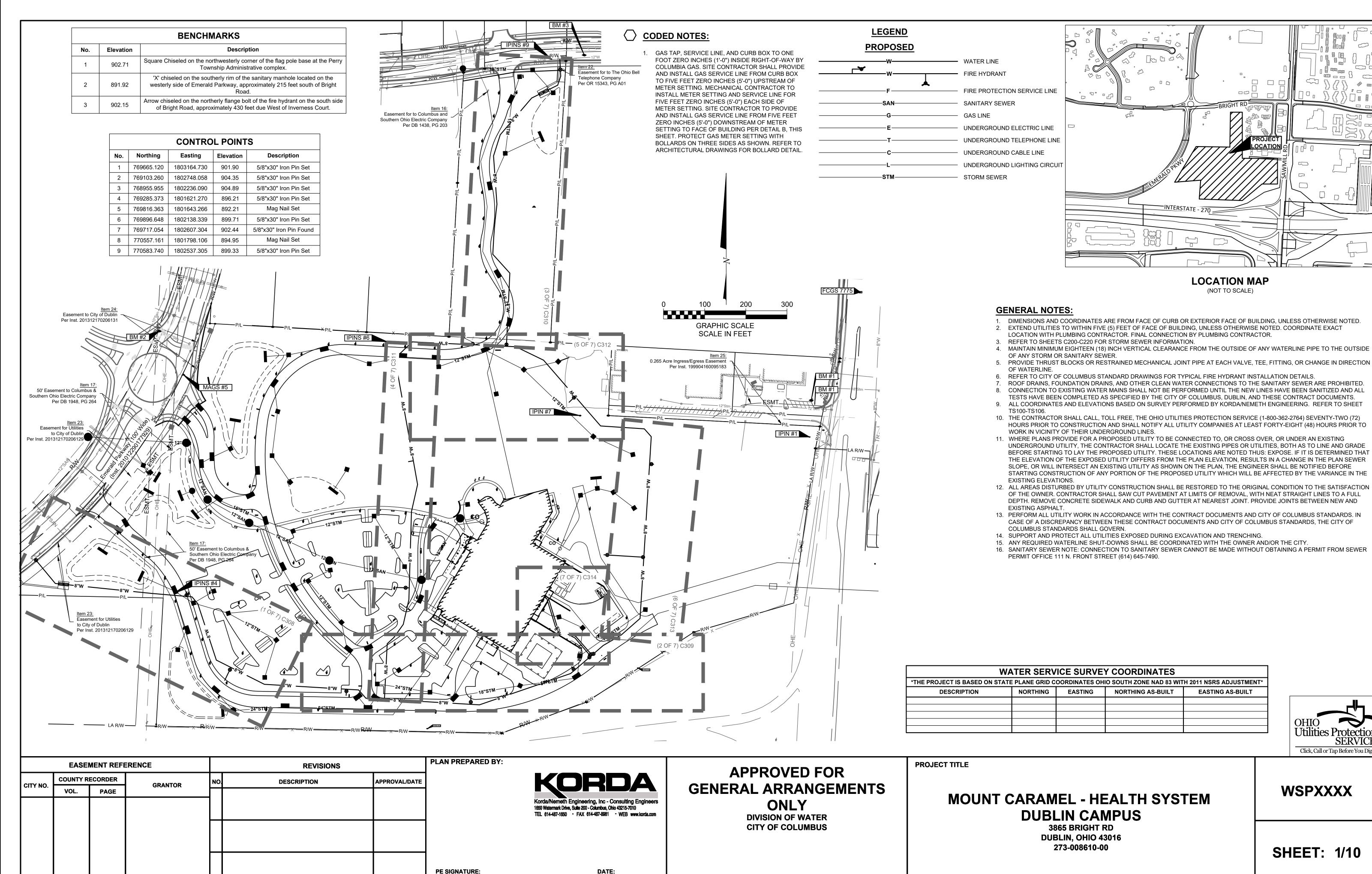
13. TELECOM AND ELECTRIC CONDUIT, REFER TO ELECTRIC SITE PLAN. 14. WATERLINE CONNECTING THE RECHARGE WELL TO RETENTION PONDS 1, 2, 3, & 7.

15. TRANSFORMER VAULT, REFER TO ELECTRICAL SHEETS.

∧NO DESCRIPTION DATE ISSUANCE HISTORY - THIS SHEET

DATE: SEPTEMBER 6, 2022 FINAL DEVELOPMENT





### CITY OF DUBLIN GENERAL NOTES

CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.

THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.

THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.

THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

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

FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS\_BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTIONS

# THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT\_OF\_WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.

THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.

NON-RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN

PERMISSION OF THE CITY ENGINEER

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

TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.

ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER
APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED
DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE
SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK
SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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 CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF

PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.

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 ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE II ACCORDING TO ITEM 613. ITEM 911 OF THE STANDARD

SPECIFICATIONS SHALL BE USED ELSEWHERE.

THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF

CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

SEND THE INFORMATION TO THE FOLLOWING ADDRESS:

CONSTRUCTION INSPECTION DIVISION
CITY OF COLUMBUS
1800 EAST 17TH AVENUE

COLUMBUS, OHIO 43219

DIVISION OF ENGINEERING CITY OF DUBLIN 6555 SHIER RINGS ROAD DUBLIN. OHIO 43016

ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.

ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 - INCHES OR GREATER AT DBH (DIAMETER BREAST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR

APPROVAL OF THE DIVISION OF ENGINEERING.

CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED, CONTROLLED DENSITY BACKFILL (TYPE II) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 613 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR

FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.

PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR. A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPLACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.

TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.

ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF

ALL INLETS SHALL BE CHANNELIZED.

UTILITIES:
THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE

AMERICAN ELECTRIC POWER
700 MORRISON ROAD
3RD FLOOR
GAHANNA, OHIO 43230
TEL: 614-883-6831
CELL: 614-949-8883
CONTACT: PAUL PAXTON

LIMITS OF THIS PROJECT:

SPECTRUM
3760 INTERCHANGE ROAD
COLUMBUS, OHIO 43204
TEL: 614-481-5262
CEL: 614-975-7468
CONTACT: DAVID HOLSTEIN

COLUMBUS, OHIO 43215

CONTACT: ROGER MIKESELL

AT&T (CABLE)

111 N 4TH STEET

TEL: 614-223-7162

1600 WALCUTT RD

TEL: 614-921-4616

CELL: 614-323-8079

AT&T (CONDUIT)

SUITE 802 TEL: 614-223-7276

ALMSICK

111 N. 4TH STREET

CONTACT: GARY VAN

DUBLIN DEVELOPMENTS

1810 ARLINGTON LANE

COLUMBUS OHIO 43228

CONTACT: DEAN PENCE

TEL: 614-274-8100

CONTACT: JOE TEPPER

COLUMBUS OH 43228

TEAM FISHEL

CITY OF DUBLIN DIVISION OF ENGINEERING 6555 SHIER RINGS RD DUBLIN, OH 43016 TEL: 614-410-4740

COLUMBIA GAS
3550 JOHNNY APPLESEED CT
COLUMBUS, OHIO 43231
TEL: 614-818-2113
CELL: 614-315-3770
CONTACT: MATT MYERS
WIDE OPEN WEST

WIDE OPEN WEST
3675 CORPORATE DRIVE
COLUMBUS, OHIO 43231
TEL: 614-749-2225
CONTACT: STEVEN CALLAHAN
CITY OF COLUMBUS

CITY OF COLUMBUS DIVISION OF WATER 910 DUBLIN ROAD 2ND FLOOR COLUMBUS, OHIO 43215 TEL: 614-645-7677

CENTURY LINK
250 W. OLD WILSON BRIDGE, SUITE 130
WORTHINGTON, OH 43085
RELOCATIONS@CENTURYLINK.COM

THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT
TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER
800\_362\_2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE
(TELEPHONE NUMBER 614 587 0486), AND TO OWNERS OF

UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A

REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE

SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.

THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS

PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE

CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME

AND FOR ANY RESULTING CONTINGENT DAMAGE.

LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.

PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS

WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND

PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING WORK.

TRAFFIC CONTROL:

TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.

ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE-LANE TWO-WAY TRAFFIC. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD. AND SHALL BE PRESENT WHENEVER ONE-LANE, TWO-WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.

IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT

PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.

STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.

ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES. THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

#### USE OF FIRE HYDRANTS:

THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRANT USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS. THE CONTRACTOR SHALL ALSO SEND A COPIES OF PERMITS OBTAINED FROM DUBLIN AND COLUMBUS TO THE WASHINGTON AND/OR PERRY TOWNSHIP FIRE DEPARTMENT. PERMITS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.

BEFORE THE FINAL ESTIMATE IS PAID, THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE CITY OF COLUMBUS DIVISION OF WATER TO THE CITY ENGINEER STATING THAT THE CONTRACTOR HAS RETURNED THE SIAMESE VALVE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.

ALL WATER LINE MATERIALS SHALL BE PROVIDED AND INSTALLED ACCORDING TO CURRENT SPECIFICATIONS OF THE CITY OF COLUMBUS DIVISION OF WATER.

ALL PUBLIC WATER PIPE WITH A DIAMETER 3 INCHES TO 8 INCHES SHALL BE DUCTILE IRON, CLASS 53. PUBLIC WATER PIPE 12 INCHES IN DIAMETER OR LARGER SHALL BE DUCTILE IRON, CLASS 54. PUBLIC WATER PIPE 20 INCHES IN DIAMETER OR LARGER MAY BE PRESTRESSED CONCRETE PIPE. PRIVATE WATER PIPE SHALL MEET THE APPROVAL OF THE CITY OF COLUMBUS DIVISION OF WATER PRIOR TO APPROVAL OF THE CONSTRUCTION DRAWINGS.

ONLY FIRE HYDRANTS CONFORMING TO CITY OF COLUMBUS

STANDARDS WILL BE APPROVED FOR USE.

PUBLIC WATER LINES SHALL BE DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER. REQUESTS FOR WATER LINE CHLORINATION SHALL BE MADE THROUGH THE CITY OF DUBLIN DIVISION OF ENGINEERING. THE COST FOR CHLORINATION SHALL BE PAID FOR BY THE CONTRACTOR.

#### BLASTING (IF PERMITTED):

THE CONTRACTOR MUST OBTAIN A BLASTING PERMIT FROM WASHINGTON TOWNSHIP FIRE DEPARTMENT PRIOR TO BLASTING FOR ROCK EXCAVATION. THE CONTRACTOR SHALL SUBMIT BLASTING REPORTS UPON COMPLETION OF BLASTING TO THE CITY ENGINEER, THE OWNER, AND THE OWNER'S ENGINEER. TOP OF ROCK ELEVATIONS SHALL BE SHOWN ON "AS-BUILT" CONSTRUCTION DRAWINGS.

ALL WATER LINES SHALL BE DISINFECTED ACCORDING TO ITEM 801.13 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AMERICAN WATER WORKS ASSOCIATION SPECIFICATION C-651, PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATING VALVES AND FIRE HYDRANTS (SECTION 7). PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHEN WATER LINES ARE READY FOR DISINFECTION, THE CITY OF DUBLIN SHALL SUBMIT TWO (2) SETS OF "AS-BUILT" PLANS, AND A LETTER STATING THAT THE WATER LINES HAVE BEEN PRESSURE TESTED AND NEED TO BE DISINFECTED, TO THE CITY OF COLUMBUS, DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER LINES

CONSTRUCTION PER THIS PLAN. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF

COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE CONTRACTOR SHALL PAINT ALL FIRE HYDRANTS ACCORDING TO CITY OF DUBLIN STANDARDS. THE COST OF PAINTING FIRE HYDRANTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR

NO WATER TAPS OR SERVICE CONNECTIONS (E.G., TO CURB STOPS OR METER PITS) MAY BE ISSUED UNTIL ADJACENT PUBLIC WATER LINES SERVING THE CONSTRUCTION SITE HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER AND HAVE BEEN ACCEPTED BY THE CITY ENGINEER. A TAP PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE CITY OF DUBLIN AND THE CITY OF COLUMBUS DIVISION OF WATER BEFORE MAKING ANY TAPS INTO PUBLIC WATER LINES.

THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS DIVISION OF WATER AT 645-7788 AND THE CITY OF DUBLIN DIVISION OF ENGINEERING AT LEAST 24 HOURS BEFORE TAPPING INTO EXISTING

WATER LINES.

ALL WATER MAIN STATIONING SHALL BE BASED ON STREET CENTERLINE STATIONING.

ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE PER CITY OF COLUMBUS STANDARDS.

THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 1 WORKING DAY BUT NOT MORE THAN 3 WORKING DAYS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE

WATER METERS SHALL BE INSTALLED INSIDE PROPOSED STRUCTURES UNLESS A METER PIT INSTALLATION IS APPROVED BY THE CITY OF COLUMBUS DIVISION OF WATER. METER PITS MUST CONFORM TO STANDARD DRAWINGS L-7103, A&B FOR 5/8" THROUGH 1" METERS OR L-6317, A, B, C&D FOR 1-1/2" OR LARGER METERS.

MINIMIZED AND MUST BE APPROVED BY THE CITY ENGINEER.

WATER LINES TO BE INSTALLED IN EMBANKMENT AREAS SHALL BE PLACED AFTER THE EMBANKMENT HAS BEEN PLACED AND COMPACTED ACCORDING TO THE STANDARD SPECIFICATIONS.

CURB STOP BOXES SHALL BE LOCATED AT LEAST 1 FOOT INSIDE

THE RIGHT-OF-WAY AND SET AT FINISHED GRADE.

IF THE TOP OF THE OPERATING NUT OF ANY VALVE IS GREATER THAN 36 INCHES BELOW FINISHED GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO WITHIN 24 INCHES OF FINISHED GRADE ELEVATION.

ALL WATER LINES SHALL BE PLACED AT A MINIMUM DEPTH OF 4 FEET MEASURED FROM TOP OF FINISHED GRADE TO TOP OF WATER LINE. WATER LINES SHALL BE SET DEEPER AT ALL POINTS WHERE NECESSARY TO CLEAR EXISTING OR PROPOSED UTILITY LINES OR OTHER UNDERGROUND RESTRICTIONS BY A MINIMUM OF 18 INCHES.

# TWO % INCH TAPS SHALL BE INSTALLED WITHIN 2 FEET OF THE END OF THE LINE ON ALL DEAD-END WATER LINES.

**EROSION AND SEDIMENT CONTROL:** THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA THE NOI MUST BE SUBMITTED TO OEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITLE COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOL A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA. ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE

THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.

CONSIDERED THE PERMITTEE.

ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.

THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL

DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.

#### CITY OF COLUMBUS WATER SERVICE PLAN NOTES:

NO WATER SERVICE CONSTRUCTION, BEFORE OR AFTER THE WATER METER(S), SHALL BEGIN PRIOR TO FEE PAYMENT TO THE CITY OF COLUMBUS DIVISION OF WATER.

THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMSC), 2012 EDITION AND ALL REVISIONS, INCLUDING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN THIS IMPROVEMENT, UNLESS OTHERWISE NOTED.

ALL WATERLINE MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT APPROVED MATERIALS LIST AND RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER, UNLESS OTHERWISE SHOWN ON THE PLANS OR APPROVED BY THE CITY OF COLUMBUS DIVISION OF WATER. ONLY PRODUCTS LISTED ON THE CURRENT APPROVED MATERIALS LIST WILL BE PERMITTED TO BE INSTALLED.

IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON THE PUBLIC WATER DISTRIBUTION SYSTEM WITHOUT FIRST SECURING LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTION 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE AND TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO HOLDS A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINED WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE, IN PARTICULAR SECTION 4114.119 AND 4114.529.

FOR ANY EMERGENCIES THAT OCCUR AFTER NORMAL WORKING HOURS INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614-645-7788.

PRIOR TO STARTING ANY SITE WATER SERVICE AND/OR WATER SERVICE TAP INSTALLATION OR PLACEMENT OF ANY WATER SERVICE MATERIALS INTO THE PUBLIC RIGHT OF WAY.

SITE UTILITY CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CITY

FORESTER (614-645-6640) FOR ANY WORK DONE WITHIN 10 FEET OF A

SITE UTILITY CONTRACTOR SHALL OBTAIN A RIGHT OF WAY PERMIT

TREE IN THE RIGHT OF WAY.

THERE SHALL BE A MINIMUM TEN (10) FOOT HORIZONTAL AND EIGHTEEN (18) INCH VERTICAL SEPARATION BETWEEN WATER SERVICE TAPS, WATER SERVICES, PRIVATE WATER SYSTEMS AND ANY SANITARY

AND/OR STORM SEWER SYSTEMS.

EXISTING RIGHT OF WAY LINE(S), PROPOSED RIGHT OF WAY LINE(S)
AND/OR WATER MAIN EASEMENT LINES SHALL BE STAKED AT 10 FOOT
INCREMENTS BY A STATE OF OHIO LICENSED SURVEYOR WHEN THE
WATER SERVICE TAP(S) AND/OR WATER SERVICE(S) ARE INSTALLED AND

INSPECTED BY THE COLUMBUS DIVISION OF WATER.

ALL INSPECTIONS REQUIRE A 24 HOUR ADVANCE NOTICE.

SITE UTILITY CONTRACTOR SHALL CALL THE COLUMBUS DIVISION OF FIRE AT 614-645-8673 TO SCHEDULE THE INSPECTION OF THE NEW FIRE HYDRANTS.

SITE UTILITY CONTRACTOR SHALL FLUSH ALL WATER SERVICES PRIOR TO ANY WATER METER INSTALLATION. THE CITY OF COLUMBUS IS NOT RESPONSIBLE FOR ANY CITY WATER METER DAMAGE. CAUSED BY NON-FLUSHING.

SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS DIVISION OF WATER

TAP ABANDONMENTS COMPLETED AT THE WATER MAIN PER CMSC ITEM

AT 614-645-7330 FOR INSPECTION OF 2" AND SMALLER WATER SERVICE

TAPS FROM THE WATER MAIN THRU THE CURB STOP AND WATER SERVICES FROM THE CURB STOP THRU THE WATER METER SETTING.

SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS DIVISION OF WATER AT 614-645-7330 FOR INSPECTION OF 2" AND SMALLER WATER SERVICE

ALL 2" AND SMALLER WATER SERVICE PIPE SHALL BE TYPE K SOFT TEMPER COPPER ONLY FROM THE CITY WATER MAIN THRU THE CURB STOP PER STANDARD DETAIL DRAWING L-9901 AND SHALL BE TYPE K SOFT TEMPER COPPER OR A DIVISION OF WATER APPROVED POLY

1" AND SMALLER METER SETTING(S) SHALL BE PER COLUMBUS DIVISION OF WATER STANDARD DRAWING L-8503.

SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS DIVISION OF WATER AT 614-645-8276 TO HAVE 1.5" AND SMALLER METER(S) INSTALLED.

TUBING FROM THE CURB STOP THRU THE WATER METER SETTING.

SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS DIVISION OF WATER AT 614-645-7330 FOR INSPECTION AND HYDROSTATIC TEST OF 3" AND LARGER WATER SERVICE TAPS FROM THE WATER MAIN THRU THE CONTROL VALVE AND WATER SERVICES FROM THE CONTROL VALVE THRU THE WATER METER SETTING. HYDROSTATIC TEST SHALL BE PER CMSC ITEM 801.14 AND SHALL BE PERFORMED FROM THE WATER MAIN

THRU THE WATER METER SETTING.

SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS DIVISION OF WATER AT 614-645-7677 FOR INSPECTION OF 3" AND LARGER WATER SERVICE TAP ABANDONMENTS TO BE COMPLETED AT THE WATER MAIN PER CMSC ITEM 808.

ALL 3" THRU 12" WATER SERVICE PIPE SHALL BE DUCTILE IRON FROM WATER MAIN THRU WATER METER SETTING(S) INCLUDING THE METER BYPASS.

ALL EXPOSED WATER MAIN AND ALL WATER SERVICE PIPE 3" AND LARGER SHALL BE POLYWRAPPED PER CMSC ITEM 801.03 TO A POINT 10 FEET BEYOND THE RIGHT OF WAY VALVE(S).

1.5" AND LARGER METER SETTING(S) SHALL BE PER COLUMBUS DIVISION OF WATER STANDARD DETAIL DRAWINGS L-6317 A-E.

BACKFLOW PREVENTION ASSEMBLY(S) SHALL BE INSTALLED, WHERE REQUIRED, PER COLUMBUS DIVISION OF WATER STANDARD DETAIL DRAWINGS L-9002 A-G. CONTRACTOR SHALL CALL 614-645-6674 WITH BACKFLOW PREVENTION INSTALLATION QUESTIONS. CONTRACTOR SHALL CALL 614-645-5781 WITH INSPECTION REQUESTS.

THE ASSE 1013 APPROVAL/STANDARD.

THE FIRE WATER SERVICE BACKFLOW PREVENTER(S) SHALL MEET THE ASSE 1048 (OR ASSE 1047 IF APPLICABLE) APPROVAL/STANDARD AND SHALL BE EQUIPPED WITH A DETECTOR METER THAT IS ITRON 100W (TOWER) OR 100R (REMOTE) COMPATIBLE, MEASURES IN CUBIC FEET

THE DOMESTIC WATER SERVICE BACKFLOW PREVENTER(S) SHALL MEET

THE DOMESTIC AND FIRE WATER METERS AND THEIR BACKFLOW PREVENTERS SHALL BE LOCATED IN A METER ROOM WITH A WALL OR CEILING MOUNTED GAS OR ELECTRIC THERMOSTATICALLY OPERATED HEATER. THE HEATER SHALL BE SIZED PER MANUFACTURER SPECS TO MAINTAIN A 40 DEGREE FAHRENHEIT INSIDE TEMPERATURE AT AN OUTSIDE TEMPERATURE OF -30 DEGREES FAHRENHEIT.

AND MEETS THE AWWA C-700 STANDARD.

AND 42" ABOVE THE FINISHED GRADE.

SERVICE METER AND BACKFLOW PREVENTER.

A 1" I.D. CONDUIT WITH 1 DRAWSTRING PER WATER METER SHALL BE PROVIDED BY THE BUILDING CONTRACTOR FROM THE WATER METER TO AND THRU 6" BEYOND THE FINISHED EXTERIOR WALL OF THE BUILDING

THE DOMESTIC AND FIRE WATER BACKFLOW PREVENTERS SHALL BE LOCATED IN AN ABOVEGROUND HEATED ENCLOSURE THAT IS ASSE 1060 CLASS I APPROVED. THE ENCLOSURE SHALL HAVE A THERMOSTATICALLY OPERATED ELECTRIC HEATER, SIZED PER MANUFACTURER SPECS TO MAINTAIN A 40 DEGREE FAHRENHEIT INSIDE TEMPERATURE AT AN OUTSIDE TEMPERATURE OF -30 DEGREES FAHRENHEIT. HEAT TAPE IS NOT PERMITTED.

SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS DIVISION OF WATER AT 614-645-5781 FOR INSPECTION OF PRIVATE DOMESTIC AND/OR FIRE WATER SYSTEM(S) AFTER THE CITY WATER METER(S) INCLUDING PRIVATE FIRE HYDRANT(S) AND/OR DOMESTIC BUILDING RISERS BEFORE COVERING.

SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS FIRE PREVENTION BUREAU AT 614-645-8673 FOR FLUSHING AND/OR PRESSURE TEST INSPECTION OF PRIVATE FIRE WATER SYSTEM AFTER THE CITY WATER

FOUR (4) INCH AND LARGER PIPE MATERIAL FOR THE PRIVATE WATER SYSTEM AFTER THE CITY WATER METER SHALL BE DUCTILE IRON, C-900, OR C-909 PIPE ONLY TO A POINT 2' ABOVE THE BUILDING FINISHED FLOOR(S).

THREE (3) INCH PIPE MATERIAL FOR THE PRIVATE WATER SYSTEM AFTER THE CITY WATER METER SHALL BE DUCTILE IRON OR SDR-21 PIPE ONLY TO A POINT 2' ABOVE THE BUILDING FINISHED FLOOR(S)

TWO (2) INCH AND SMALLER PIPE MATERIAL FOR THE PRIVATE WATER SYSTEM AFTER THE CITY WATER METER SHALL BE TYPE K SOFT TEMPER COPPER OR A DIVISION OF WATER APPROVED POLYTUBING ONLY TO A POINT 2' ABOVE THE BUILDING FINISHED FLOOR(S).



	EASEI	MENT REFER	RENCE		REVISIONS		PLAN PREPARED BY:		APPROVED FOR	PROJECT TITLE	
CITY NO.	COUNTY R	ECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		KORDA	GENERAL ARRANGEMENTS		WSPXXXX
		17.02						Korda/Nemeth Engineering, Inc - Consulting Engineers 1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010 TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com	ONLY DIVISION OF WATER	MOUNT CARAMEL - HEALTH SYSTEM DUBLIN CAMPUS	
									CITY OF COLUMBUS	3865 BRIGHT RD DUBLIN, OHIO 43016 273-008610-00	CHEET, 2/40
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Milwaukee, Wisconsin 53202 Telephone 414.278.8200

333 East Erie Street

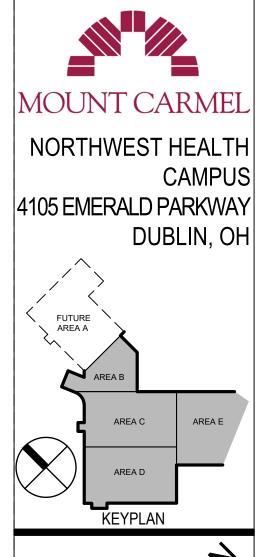
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CIVIL/MECHANICAL/ELECTRICAL/
PLUMBING/STRUCTURAL/
TECHNOLOGY ENGINEER

1650 WATERMARK DRIVE COLMBUS, OH 43215 614.487.1650

LANDSCAPE ARCHITECT

462 SOUTH LUDLOW ALLEY COLUMBUS, OH 43215 614.621.2796

MOUNT CARMEL
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SYSTEM



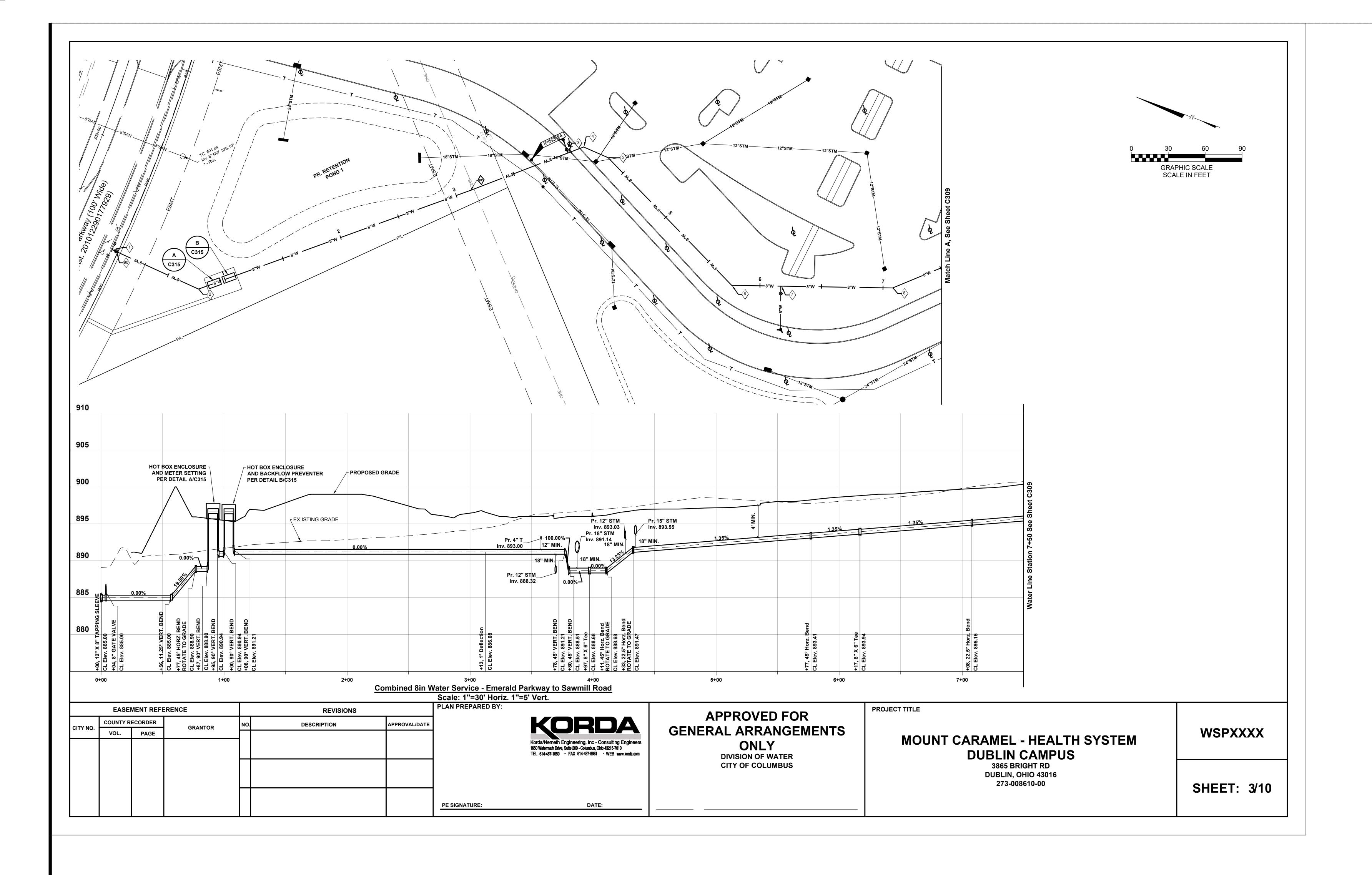
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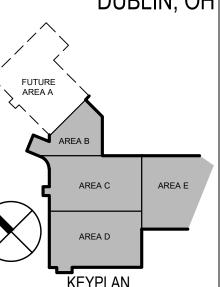
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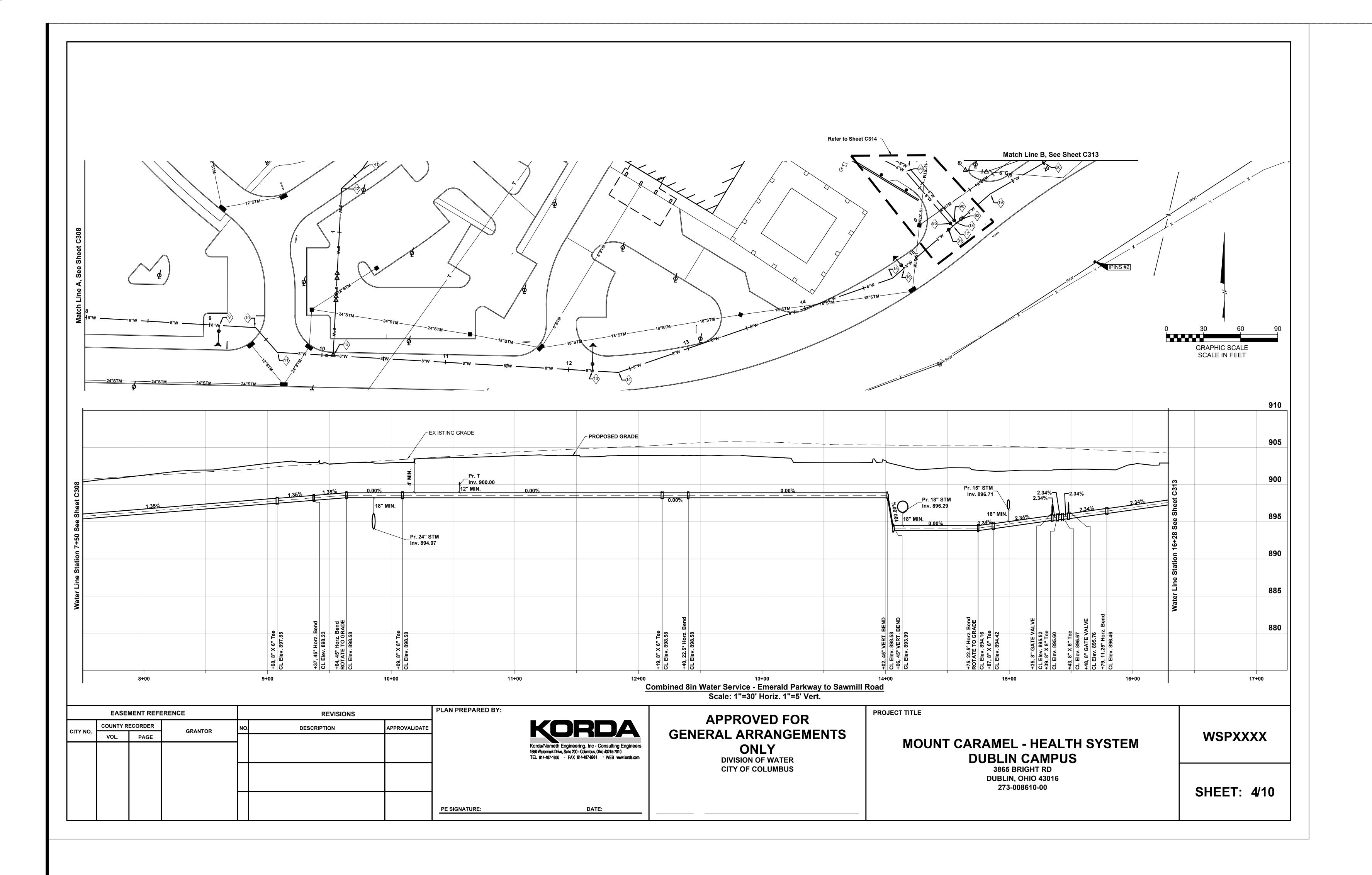
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WATERLINE PLAN AND PROFILE

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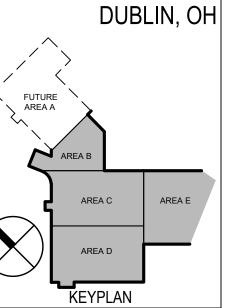
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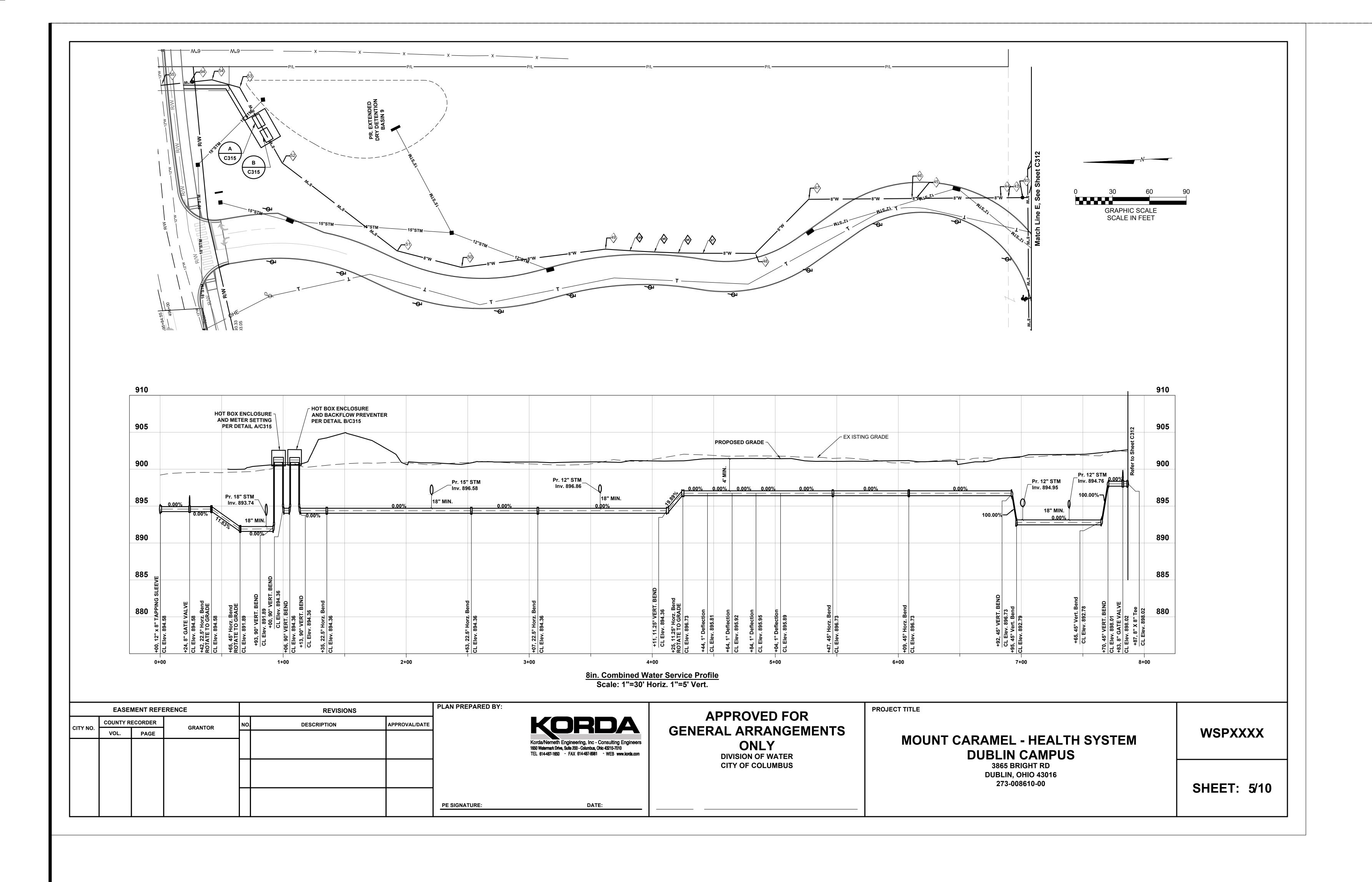
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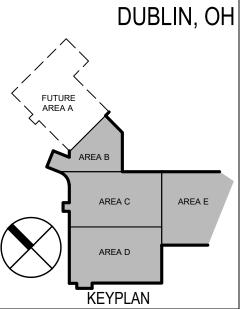
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MOUNT CARMEL HEALTH SYSTEM





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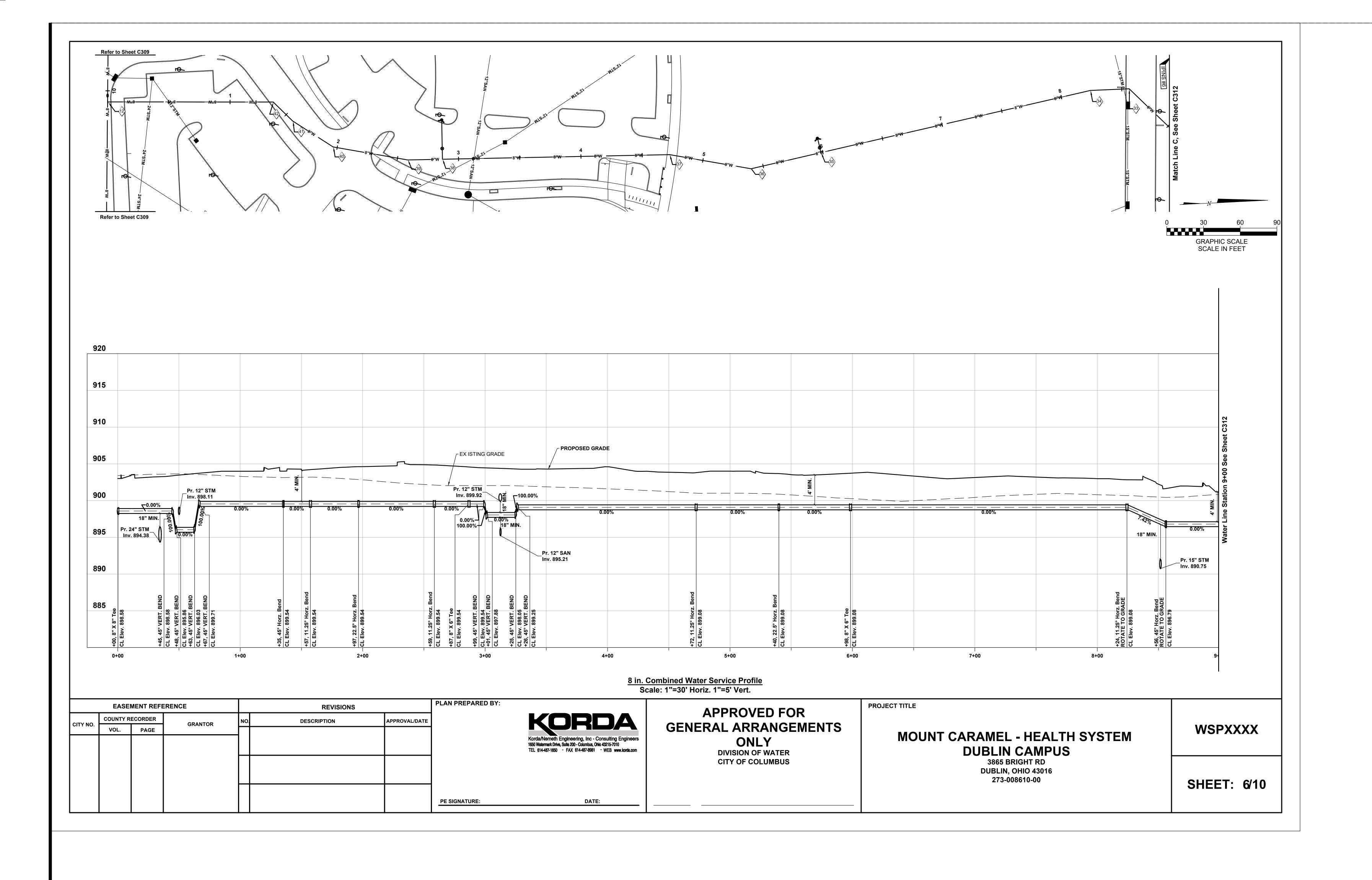
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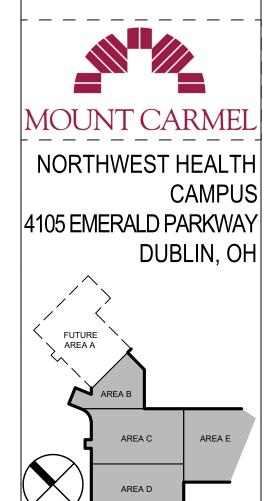
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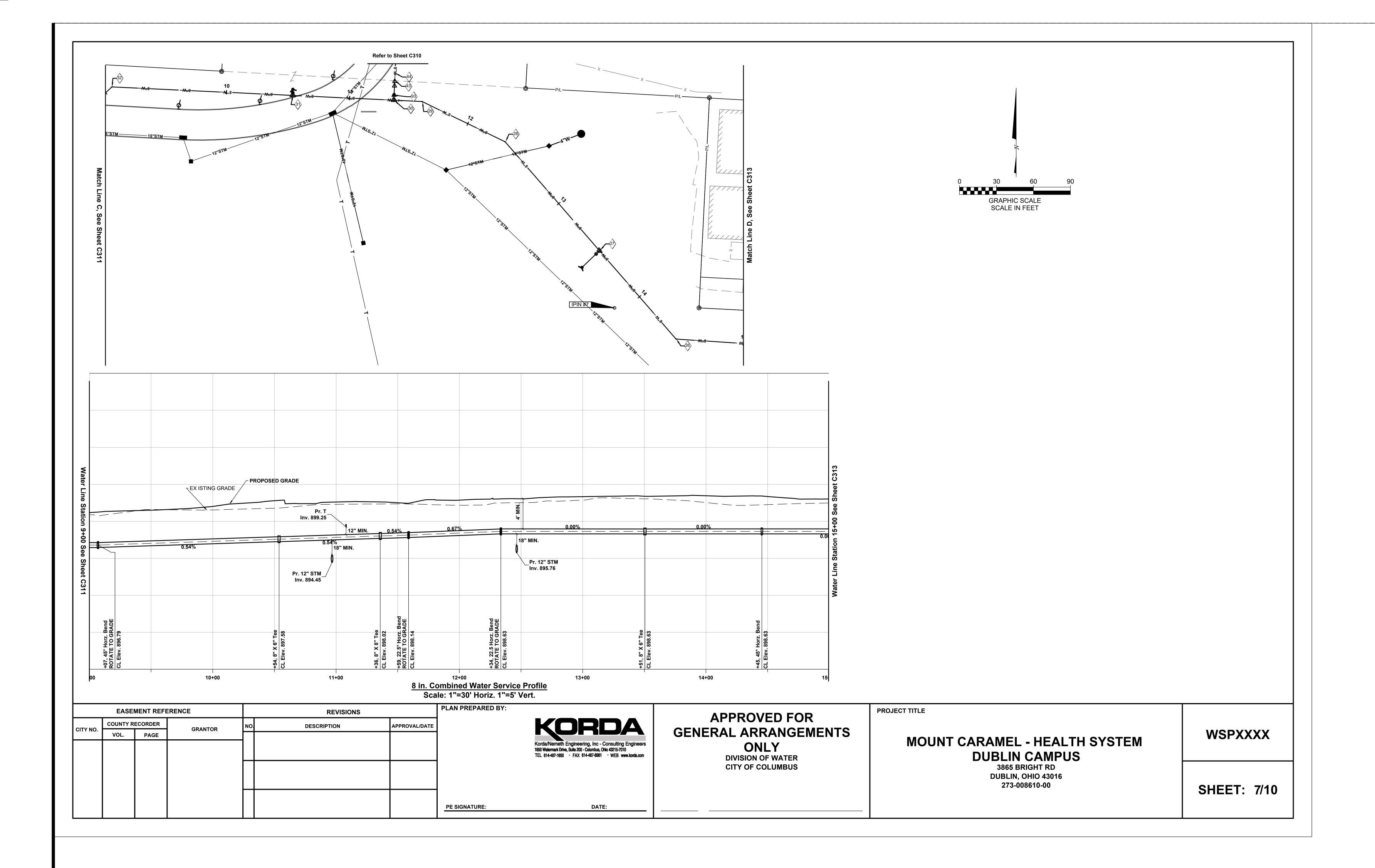
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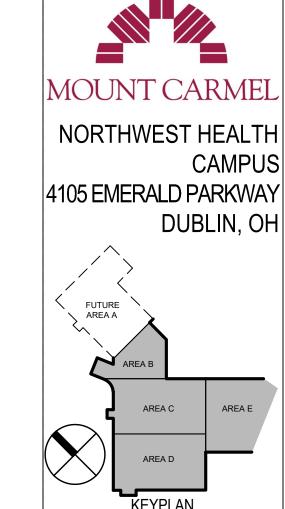
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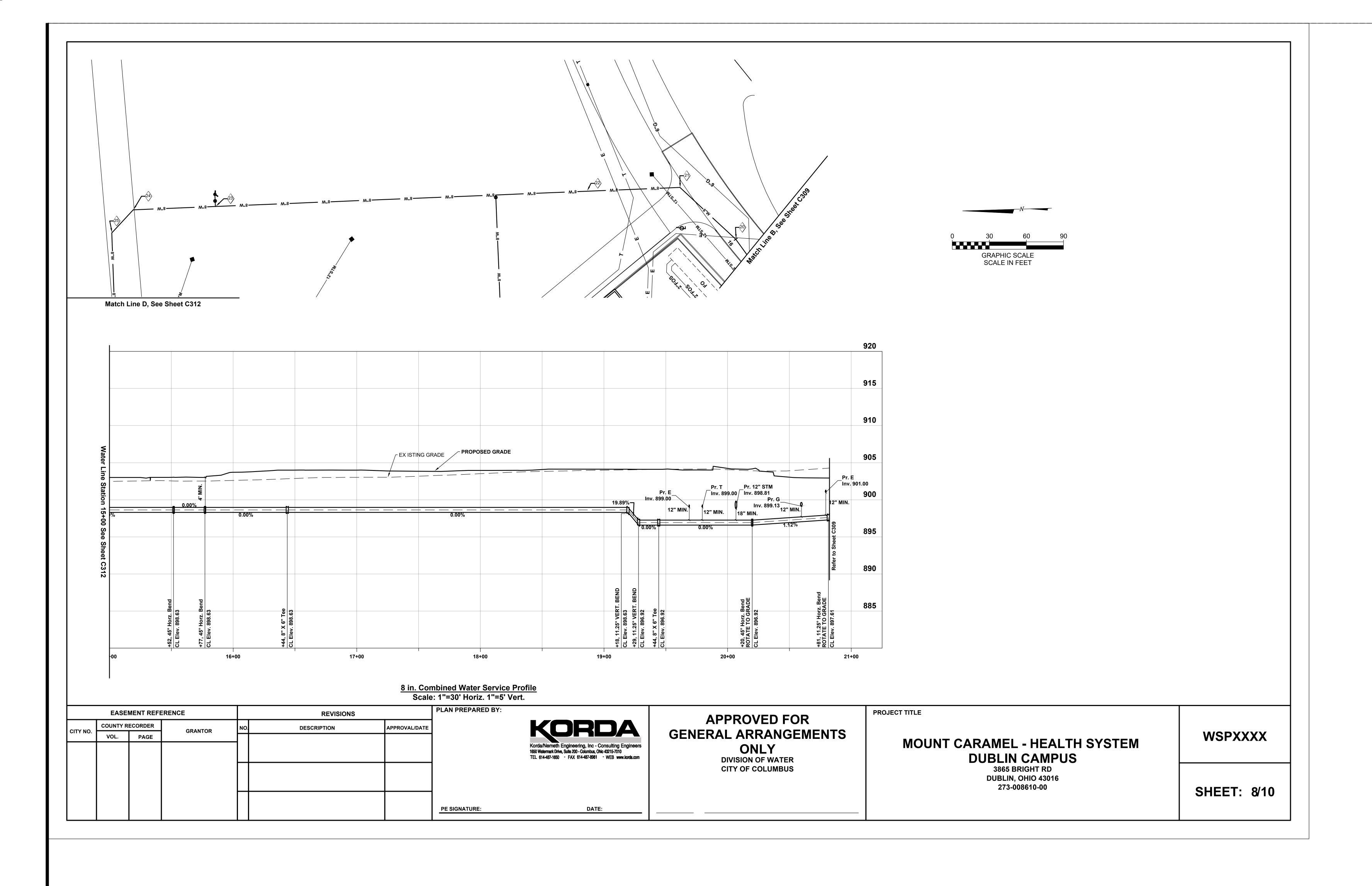
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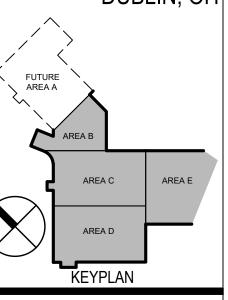
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