Client:

# CITY OF COLUMBUS

123 WASHINGTON ST.
COLUMBUS, IN 47201

Project:

# NEXUSPARK

Perkins&Will

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## ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

**CIVIL**
STRAND ASSOCIATES
629 WASHINGTON ST.
COLUMBUS, IN 47201

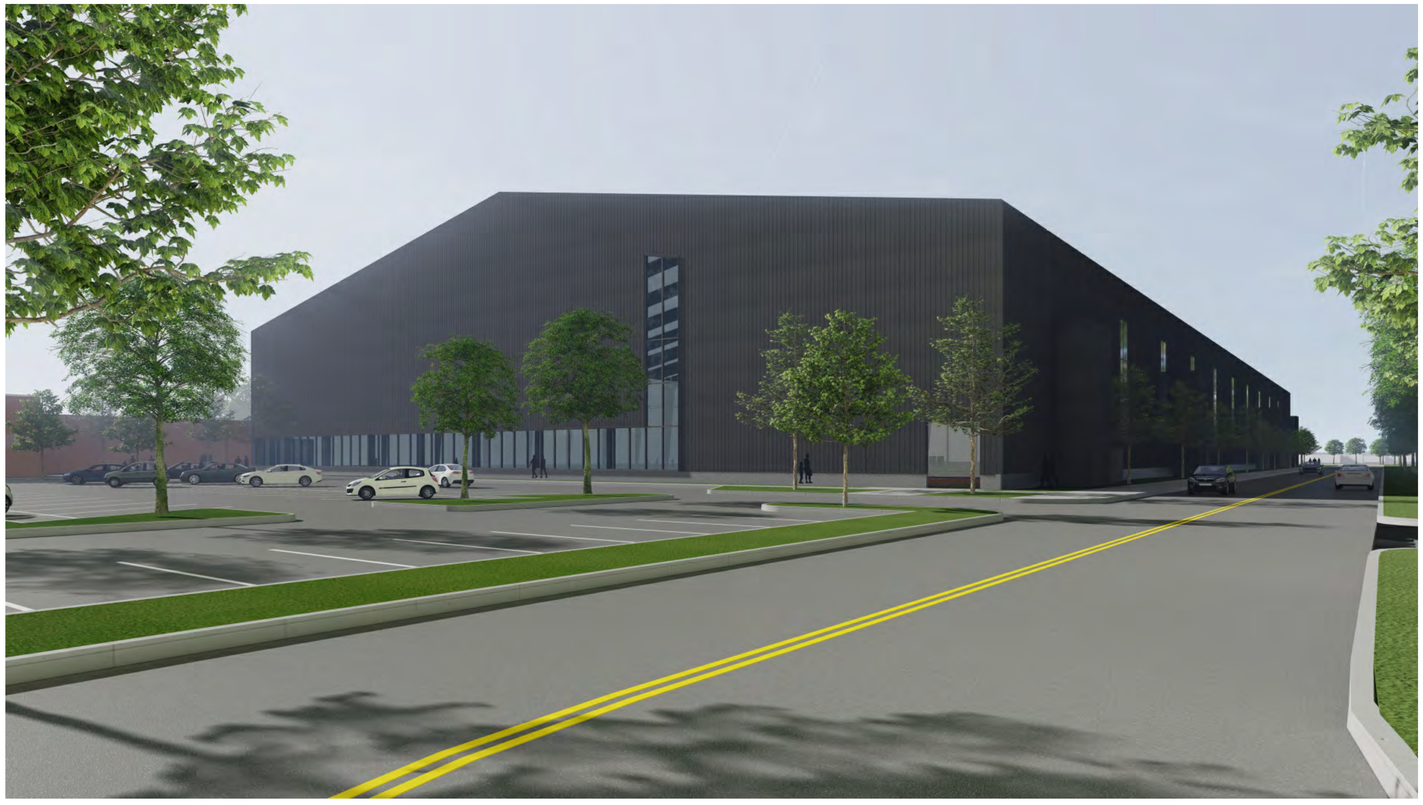
**LANDSCAPE**
MKSK
200 S MERIDIAN ST.
INDIANAPOLIS, IN 46225

**STRUCTURAL**
SSR, INC.
2995 SIDCO DR.
NASHVILLE, TN 37204

**MEP**
SSR, INC.
2995 SIDCO DR.
NASHVILLE, TN 37204

**FACILITY**
FAIR OAKS MALL
2380 25TH ST.
COLUMBUS, IN 47201

**CONTRACTOR**
TAYLOR BROS.
CONSTRUCTION CO., INC.
4555 MIDDLE RD.
COLUMBUS, IN 47203



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**"R" = ISSUED FOR REFERENCE ONLY**

## 1. GENERAL INFORMATION

**PROJECT DESCRIPTION**

THIS PROJECT IS FOR A PARTIAL ADAPTIVE-REUSE AND EXPANSION OF AN EXISTING 1-STORY SHOPPING MALL IN COLUMBUS, INDIANA. THE EXPANSION INCLUDES A PREFABRICATED BUILDING FIELDHOUSE, WHICH WILL ACCOMMODATE VARIOUS FIELD AND COURT ATHLETIC ACTIVITIES.

**APPLICABLE BUILDING CODES:**

a. BUILDING: 2012 INDIANA BUILDING CODE (2012 INTERNATIONAL BUILDING CODE WITH AMENDMENTS)

b. LIFE SAFETY: 2012 INDIANA FIRE CODE (2012 INTERNATIONAL FIRE CODE WITH AMENDMENTS)

c. ACCESSIBILITY: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN ICC A117.1 CURRENT EDITION

d. ENERGY: 2010 INDIANA ENERGY CONSERVATION CODE (ASHRAE 90.1 2007 EDITION

2014 INDIANA FUEL GAS CODE (2012 INTERNATIONAL FUEL GAS CODE WITH AMENDMENTS)

e. ELECTRICAL: 2009 INDIANA ELECTRICAL CODE (2008 NATIONAL ELECTRICAL CODE WITH AMENDMENTS)

f. PLUMBING: 2012 INDIANA PLUMBING CODE (2006 INTERNATIONAL PLUMBING CODE WITH AMENDMENTS)

g. MECHANICAL 2014 INDIANA MECHANICAL CODE (2012 INTERNATIONAL MECHANICAL CODE WITH AMENDMENTS)

h. NFPA NFPA 10-2010 - PORTABLE FIRE EXTINGUISHERS
NFPA 13-2010 - INSTALLATION OF SPRINKLER SYSTEMS
NFPA 72-2010 - NATIONAL FIRE ALARM CODE

## 2. ANCHOR BUILDING OCCUPANCY CLASSIFICATION

**OCCUPANCY CLASSIFICATION**

a. PRIMARY: GROUP A-3

## 3. CONSTRUCTION TYPE, HEIGHT & AREA

a. TYPE II-B, UNPROTECTED , NON-COMBUSTIBLE CONSTRUCTION

b. MAXIMUM ALLOWABLE HEIGHT — ACTUAL BUILDING HEIGHT
HEIGHT = 75'-0" * — HEIGHT = 75'-0"

c. MAXIMUM ALLOWABLE AREA PER STORY — ACTUAL AREA
i. A-3 = UL** — A-3: 150,348 SF

* 55'-0" + 20'-0" SPRINKLER INCREASE

402.4.1 AREA AND TYPES OF CONSTRUCTION
THE BUILDING AREA OF ANY COVERED MALL OR OPEN MALL BUILDING INCLUDING ANCHOR BUILDINGS OF TYPE I, II, III, AND IV CONSTRUCTION SHALL NOT BE LIMITED PROVIDED THE ANCHOR BUILDINGS SO NOT EXCEED THREE STORIES ABOVE GRADE PLANE.

## 4. FIRE PROTECTION

| BUILDING ELEMENT | RATING | REFERENCE |
|---|---|---|
| A. STRUCTURAL FRAME | 0HR | TABLE 601 |
| B. BEARING WALLS | | TABLE 601 |
| I. EXTERIOR | 0HR | |
| II. INTERIOR | 0HR | |
| C. NONBEARING WALLS AND PARTITIONS | | TABLE 601 |
| I. EXTERIOR - 10' < X < 30' SEPARATION | 0HR | TABLE 602 |
| II. INTERIOR | 0HR | |
| D. FLOOR CONSTRUCTION | 0HR | TABLE 601 |
| E. ROOF CONSTRUCTION | 0HR | TABLE 601 |
| F. PRIMARY FRAME/WALLS SUPPORTING ROOF ONLY | 0HR | TABLE 601 (NOTE A) |
| G. INTERIOR WALL AND CEILING FINISHES (A-3 MOST RESTRICTIVE) | | TABLE 803.11 |
| I. EXIT ENCLOSURES/EXIT PASSAGEWAYS | CLASS B (SPRINKLERED) | |
| II. CORRIDORS | CLASS B (SPRINKLERED) | |
| III. ROOMS AND ENCLOSED SPACES | CLASS C (SPRINKLERED) | |
| H. MAXIMUM AREA OF EXTERIOR WALL OPENINGS (SPRINKLERED) | NO LIMIT* | TABLE 705.8 |
| I. 30' < X SEPARATION | | |

I. EXIT CORRIDORS SHALL BE A MINIMUM OF 1 HOUR.

## 5. EGRESS REQUIREMENTS

| | |
|---|---|
| A. EGRESS WIDTH PER OCCUPANT (WITH SPRINKLER SYSTEM) | SECTION 1005.3 |
| I. STAIRWAYS | 0.2 INCHES PER OCCUPANT (1005.3.1 EXCEPTION 1) |
| II. OTHER EGRESS COMPONENTS | 0.15 INCHES PER OCCUPANT (1005.3.2 EXCEPTION 1) |
| B. NUMBER OF EXITS | TABLE 1006.3.2 |
| OCCUPANT LOAD (PERSONS PER STORY) | MINIMUM NUMBER OF EXITS (PER STORY) |
| 501-1,000 | 3 |
| > 1,000 | 4 |
| C. SPACES WITH ONE MEANS OF EGRESS | TABLE 1006.2.1 |
| OCCUPANCY | MAXIMUM OCCUPANT LOAD |
| A, B, & M | 49 |
| D. REMOTENESS OF EXITS IN A MULTI-EXIT SPACE | 1015.2.1; EXCEPTION 2 |
| WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2, THE SEPARATION DISTANCE SHALL BE NOT LESS THAN ONE-THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED. | |
| E. EXIT ACCESS TRAVEL DISTANCE | TABLE 1016.2 |
| I. A & M OCCUPANCY | 250' (WITH AUTO SPRINKLER) |
| II. B OCCUPANCY | 300' (WITH AUTO SPRINKLER) |
| III. COVERED MALL PROVISIONS | 402.2.5 |
| A. FROM TENANT SPACE TO MALL | 200' |
| B. FROM MALL BUILDING TO EXIT ACCESS | 200' |
| F. COMMON PATH OF TRAVEL | TABLE 1014.3 |
| I. A & M OCCUPANCY | 75' |
| II. B OCCUPANCY | 100' |
| G. CORRIDOR WIDTH | SECTION 1018.2 |
| I. MINIMUM WIDTH IS DETERMINED IN ACCORDANCE WITH SECTION 1005.1, BUT NOT LESS THAN 44" | |
| H. DEAD ENDS | 1020.4 |
| I. A OCCUPANCY | 20' MAX |
| II. B & M OCCUPANCY | 50' MAX (EXCEPTION 2) |
| III. UNLIMITED WHERE THE LENGTH OF THE CORRIDOR IS LESS THAN 2.5 TIMES THE LEAST WIDTH | |
| IV. MALL BUILDING PROVISION, WHERE THE LENGTH OF THE CORRIDOR IS LESS THAN 2 TIMES THE LEAST WIDTH | |

## 5. BUILDING AREA & OCCUPANT LOAD

| OCCUPANCY | SQ FTG | CODE | OCC LOAD FACTOR | OCC LOAD | DOOR FACTOR | DOOR REQ |
|---|---|---|---|---|---|---|
| ASSEMBLY - UNCONC. CHAIRS | 1,567 | IBC | 7 SF | 224 | 0.15 | 33.57" |
| ASSEMBLY - UNCONC. CHAIRS | 1,558 | IBC | 7 SF | 223 | 0.15 | 33.39" |
| ASSEMBLY - UNCONC. CHAIRS | 1,460 | IBC | 7 SF | 209 | 0.15 | 31.28" |
| ASSEMBLY - UNCONC. TABLES & CHAIRS | 4,584 | IBC | 15 SF | 306 | 0.15 | 45.84" |
| ASSEMBLY - UNCONC. TABLES & CHAIRS | 3,659 | IBC | 15 SF | 244 | 0.15 | 36.59" |
| ASSEMBLY - UNCONC. TABLES & CHAIRS | 303 | IBC | 15 SF | 20 | 0.15 | 3.03" |
| ASSEMBLY - UNCONC. TABLES & CHAIRS | 550 | IBC | 15 SF | 37 | 0.15 | 5.50" |
| ASSEMBLY - UNCONC. TABLES & CHAIRS | 604 | IBC | 15 SF | 40 | 0.15 | 6.04" |
| ASSEMBLY - UNCONC. TABLES & CHAIRS | 680 | IBC | 15 SF | 45 | 0.15 | 6.80" |
| BUSINESS | 1,492 | IBC | 100 SF | 15 | 0.15 | 2.24" |
| BUSINESS | 6,206 | IBC | 100 SF | 62 | 0.15 | 9.31" |
| BUSINESS | 3,122 | IBC | 100 SF | 31 | 0.15 | 4.68" |
| BUSINESS | 1,297 | IBC | 100 SF | 13 | 0.15 | 1.95" |
| BUSINESS | 243 | IBC | 100 SF | 2 | 0.15 | 0.36" |
| DAY CARE | 3,068 | IBC | 35 SF | 88 | 0.15 | 13.15" |
| EXERCISE ROOM | 150,348 | IBC | 50 SF | 3007 | 0.15 | 451.05" |
| EXERCISE ROOM | 3,221 | IBC | 50 SF | 64 | 0.15 | 9.66" |
| EXERCISE ROOM | 11,755 | IBC | 50 SF | 235 | 0.15 | 35.27" |
| KITCHEN | 348 | NFPA | 100 SF | 3 | 0.15 | 0.52" |
| LOCKER ROOM | 1,295 | IBC | 50 SF | 26 | 0.15 | 3.88" |
| LOCKER ROOM | 242 | IBC | 50 SF | 5 | 0.15 | 0.73" |
| MALL BUILDING | 48,704 | IBC | 50 SF | 974 | 0.15 | 146.11" |
| MECH / EQUIP / STOR. | 11,452 | IBC | 300 SF | 38 | 0.15 | 5.73" |
| MECH / EQUIP / STOR. | 1,454 | IBC | 300 SF | 5 | 0.15 | 0.73" |
| MECH / EQUIP / STOR. | 603 | IBC | 300 SF | 2 | 0.15 | 0.30" |
| MECH / EQUIP / STOR. | 2,115 | IBC | 300 SF | 7 | 0.15 | 1.06" |
| MECH / EQUIP / STOR. | 66 | IBC | 300 SF | 0 | 0.15 | 0.03" |
| MECH / EQUIP / STOR. | 3,022 | IBC | 300 SF | 10 | 0.15 | 1.51" |
| MECH / EQUIP / STOR. | 254 | IBC | 300 SF | 1 | 0.15 | 0.13" |
| MECH / EQUIP / STOR. | 182 | IBC | 300 SF | 1 | 0.15 | 0.09" |
| MECH / EQUIP / STOR. | 241 | IBC | 300 SF | 1 | 0.15 | 0.12" |
| MECH / EQUIP / STOR. | 804 | IBC | 300 SF | 3 | 0.15 | 0.40" |
| MECH / EQUIP / STOR. | 590 | IBC | 300 SF | 2 | 0.15 | 0.29" |
| MECH / EQUIP / STOR. | 423 | IBC | 300 SF | 1 | 0.15 | 0.21" |
| MECH / EQUIP / STOR. | 57 | IBC | 300 SF | 0 | 0.15 | 0.03" |
| MECH / EQUIP / STOR. | 553 | IBC | 300 SF | 2 | 0.15 | 0.28" |
| MECH / EQUIP / STOR. | 1,325 | IBC | 300 SF | 4 | 0.15 | 0.66" |
| MECH / EQUIP / STOR. | 270 | IBC | 300 SF | 1 | 0.15 | 0.14" |
| MECH / EQUIP / STOR. | 289 | IBC | 300 SF | 1 | 0.15 | 0.14" |
| MERCANTILE - BASEMENT & GRADE | 2,958 | IBC | 30 SF | 99 | 0.15 | 14.79" |
| MERCANTILE - BASEMENT & GRADE | 18,169 | IBC | 30 SF | 606 | 0.15 | 90.85" |
| MERCANTILE - BASEMENT & GRADE | 10,004 | IBC | 30 SF | 333 | 0.15 | 50.02" |
| MERCANTILE - BASEMENT & GRADE | 6,626 | IBC | 30 SF | 221 | 0.15 | 33.13" |
| MERCANTILE - BASEMENT & GRADE | 21,417 | IBC | 30 SF | 714 | 0.15 | 107.08" |
| MERCANTILE - BASEMENT & GRADE | 4,622 | IBC | 30 SF | 154 | 0.15 | 23.11" |
| | 333,800 | | | 8079 | | 1211.78" |

**TOTAL EGRESS WIDTH PROVIDED: 2,356.00"**

## 6. PLUMBING FIXTURE ANALYSIS

**OCCUPANT LOAD AND MINIMUM PLUMBING FIXURES REQUIRED**

| FUNCTION OF SPACE (IBC TABLE 1004.1.1) | OCCUPANT LOAD & PLUMBING CALCS: OCCUPANT LOAD CALCS: SQ. FTG. | USE CLASS. | OCC. LOAD FOR EGRESS | OCCUPANT LOAD BASED ON ACTUAL USE | OCCUPANT LOAD & PLUMBING CALCS: PLUMBING CALCS: WATER CLOSET MEN | WATER CLOSET WOM | LAVATORIES MEN | LAVATORIES WOM | DF | BATH | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A-3 | | | | | | | | | | | |
| ASSEMBLY - UNCONC. CHAIRS | 1566.76 SF | A-3-1 | 223.82 | 223.82 | 0.90 | 1.72 | 0.56 | 0.56 | 0.45 | | |
| ASSEMBLY - UNCONC. CHAIRS | 1558.26 SF | A-3-1 | 222.61 | 222.61 | 0.89 | 1.71 | 0.56 | 0.56 | 0.45 | | |
| ASSEMBLY - UNCONC. CHAIRS | 1459.87 SF | A-3-1 | 208.55 | 208.55 | 0.83 | 1.60 | 0.52 | 0.52 | 0.42 | | |
| ASSEMBLY - UNCONC. TABLES & CHAIRS | 4583.91 SF | A-3-1 | 305.59 | 305.59 | 1.22 | 2.35 | 0.76 | 0.76 | 0.61 | | |
| ASSEMBLY - UNCONC. TABLES & CHAIRS | 3658.65 SF | A-3-1 | 243.91 | 243.91 | 0.98 | 1.88 | 0.61 | 0.61 | 0.49 | | |
| ASSEMBLY - UNCONC. TABLES & CHAIRS | 500.09 SF | A-3-1 | 36.67 | 36.67 | 0.15 | 0.28 | 0.09 | 0.09 | 0.07 | | |
| ASSEMBLY - UNCONC. TABLES & CHAIRS | 603.63 SF | A-3-1 | 40.24 | 40.24 | 0.16 | 0.31 | 0.10 | 0.10 | 0.08 | | |
| ASSEMBLY - UNCONC. TABLES & CHAIRS | 680.32 SF | A-3-1 | 45.35 | 45.35 | 0.18 | 0.35 | 0.11 | 0.11 | 0.09 | | |
| DAY CARE | 3067.55 SF | A-3-1 | 87.64 | 87.64 | 0.35 | 0.67 | 0.22 | 0.22 | 0.18 | | |
| EXERCISE ROOM | 150348.33 SF | A-3-1 | 3006.97 | 1000 | 6.00 | 11.54 | 3.75 | 3.75 | 6.01 | | MAXIMUM ATHLETIC USE CALCULATED. EVENTS ABOVE AND BEYOND OCCUPANT LOAD MAY REQUIRE TEMPORARY FACILITIES |
| EXERCISE ROOM | 3221.02 SF | A-3-1 | 64.42 | 64.42 | 0.26 | 0.50 | 0.16 | 0.16 | 0.13 | | |
| EXERCISE ROOM | 11755.03 SF | A-3-1 | 235.10 | 235.1 | 0.94 | 1.81 | 0.59 | 0.59 | 0.47 | | |
| KITCHEN | 348.20 SF | A-3-1 | 3.48 | 3.48 | 0.01 | 0.03 | 0.01 | 0.01 | 0.01 | | |
| LOCKER ROOM | 1294.69 SF | A-3-1 | 25.89 | 25.89 | 0.10 | 0.20 | 0.06 | 0.06 | 0.05 | | |
| LOCKER ROOM | 242.39 SF | A-3-1 | 4.85 | 4.85 | 0.02 | 0.04 | 0.01 | 0.01 | 0.01 | | |
| MECH / EQUIP / STOR. | 11452.24 SF | A-3-1 | 38.17 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | | |
| MECH / EQUIP / STOR. | 2114.91 SF | A-3-1 | 7.05 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | | |
| MECH / EQUIP / STOR. | 65.89 SF | A-3-1 | 0.22 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MECH / EQUIP / STOR. | 253.94 SF | A-3-1 | 0.85 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MECH / EQUIP / STOR. | 240.59 SF | A-3-1 | 0.80 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MECH / EQUIP / STOR. | 803.62 SF | A-3-1 | 2.68 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | | |
| MECH / EQUIP / STOR. | 589.78 SF | A-3-1 | 1.97 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MECH / EQUIP / STOR. | 56.54 SF | A-3-1 | 0.19 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MECH / EQUIP / STOR. | 552.83 SF | A-3-1 | 1.84 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MECH / EQUIP / STOR. | 270.42 SF | A-3-1 | 0.90 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MECH / EQUIP / STOR. | 289.09 SF | A-3-1 | 0.96 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| | 201628.56 SF | | 4810.75 | 3248.12 | 12.99 | 24.99 | 8.12 | 8.12 | 9.62 | | |
| B | | | | | | | | | | | |
| ASSEMBLY - UNCONC. TABLES & CHAIRS | 303.09 SF | B | 20.21 | 20.21 | 0.34 | 0.34 | 0.27 | 0.27 | 0.20 | | |
| BUSINESS | 1492.04 SF | B | 14.92 | 14.92 | 0.25 | 0.25 | 0.20 | 0.20 | 0.15 | | |
| BUSINESS | 6205.55 SF | B | 62.06 | 62.06 | 1.04 | 1.04 | 0.83 | 0.83 | 0.62 | | |
| BUSINESS | 3122.25 SF | B | 31.22 | 31.22 | 0.53 | 0.53 | 0.41 | 0.41 | 0.31 | | |
| BUSINESS | 1297.11 SF | B | 12.97 | 12.97 | 0.22 | 0.22 | 0.17 | 0.17 | 0.13 | | |
| BUSINESS | 242.57 SF | B | 2.43 | 2.43 | 0.04 | 0.04 | 0.03 | 0.03 | 0.02 | | |
| MECH / EQUIP / STOR. | 182.35 SF | B | 0.61 | 0 | | | | | 0.01 | | |
| | 12844.95 SF | | 144.41 | 143.81 | 2.44 | 2.44 | 1.90 | 1.90 | 1.44 | | |
| M | | | | | | | | | | | |
| MALL BUILDING | 48704.19 SF | M | 974.08 | 940.38 | 0.94 | 0.94 | 0.63 | 0.63 | 0.97 | | PER ASSEMBLY OCCUPANCY, NO ADDITIONAL MALL OCCUPANCY ANTICIPATED IN A-3 PORTION OF BUILDING |
| MECH / EQUIP / STOR. | 1453.81 SF | M | 4.84 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MECH / EQUIP / STOR. | 603.44 SF | M | 2.01 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MECH / EQUIP / STOR. | 3021.53 SF | M | 10.07 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | | |
| MECH / EQUIP / STOR. | 423.20 SF | M | 1.41 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MECH / EQUIP / STOR. | 1324.85 SF | M | 4.42 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MERCANTILE - BASEMENT & GRADE | 2957.64 SF | M | 98.59 | 98.59 | 0.10 | 0.10 | 0.07 | 0.07 | 0.10 | | |
| MERCANTILE - BASEMENT & GRADE | 18169.37 SF | M | 605.65 | 605.65 | 0.61 | 0.61 | 0.40 | 0.40 | 0.61 | | |
| MERCANTILE - BASEMENT & GRADE | 10004.31 SF | M | 333.48 | 333.48 | 0.33 | 0.33 | 0.22 | 0.22 | 0.33 | | |
| MERCANTILE - BASEMENT & GRADE | 6626.09 SF | M | 220.87 | 220.87 | 0.22 | 0.22 | 0.15 | 0.15 | 0.22 | | |
| MERCANTILE - BASEMENT & GRADE | 21416.58 SF | M | 713.89 | 713.89 | 0.71 | 0.71 | 0.48 | 0.48 | 0.71 | | |
| MERCANTILE - BASEMENT & GRADE | 4621.82 SF | M | 154.06 | 154.06 | 0.15 | 0.15 | 0.10 | 0.10 | 0.15 | | |
| | 119326.82 SF | | 3123.37 | 3066.92 | 3.07 | 3.07 | 2.04 | 2.04 | 3.12 | | |
| | 333800.33 SF | | 8078.52 | 6458.85 | 18.50 | 30.49 | 12.06 | 12.06 | 14.19 | | |

**TOTAL A-3 FIXTURES PROVIDED:** 22 22 16 16 15

**TOTAL B FIXTURES PROVIDED:** 2 2 2 2 2

TOTAL PLUMBING COUNT EXCLUDES CLINICAL HEALTH
TENANT SPACE REQUIREMENTS NOT IN CONTRACT

**TOTAL M FIXTURES PROVIDED:** 19 20 17 18 4 **(ALL FIXTURES IN EXISTING MALL / TENANT SPACES)**

**TOTAL FIXTURES PROVIDED:** 45 54 33 38 16


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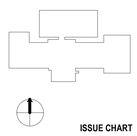

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Job Number

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**CODE COMPLIANCE DATA**

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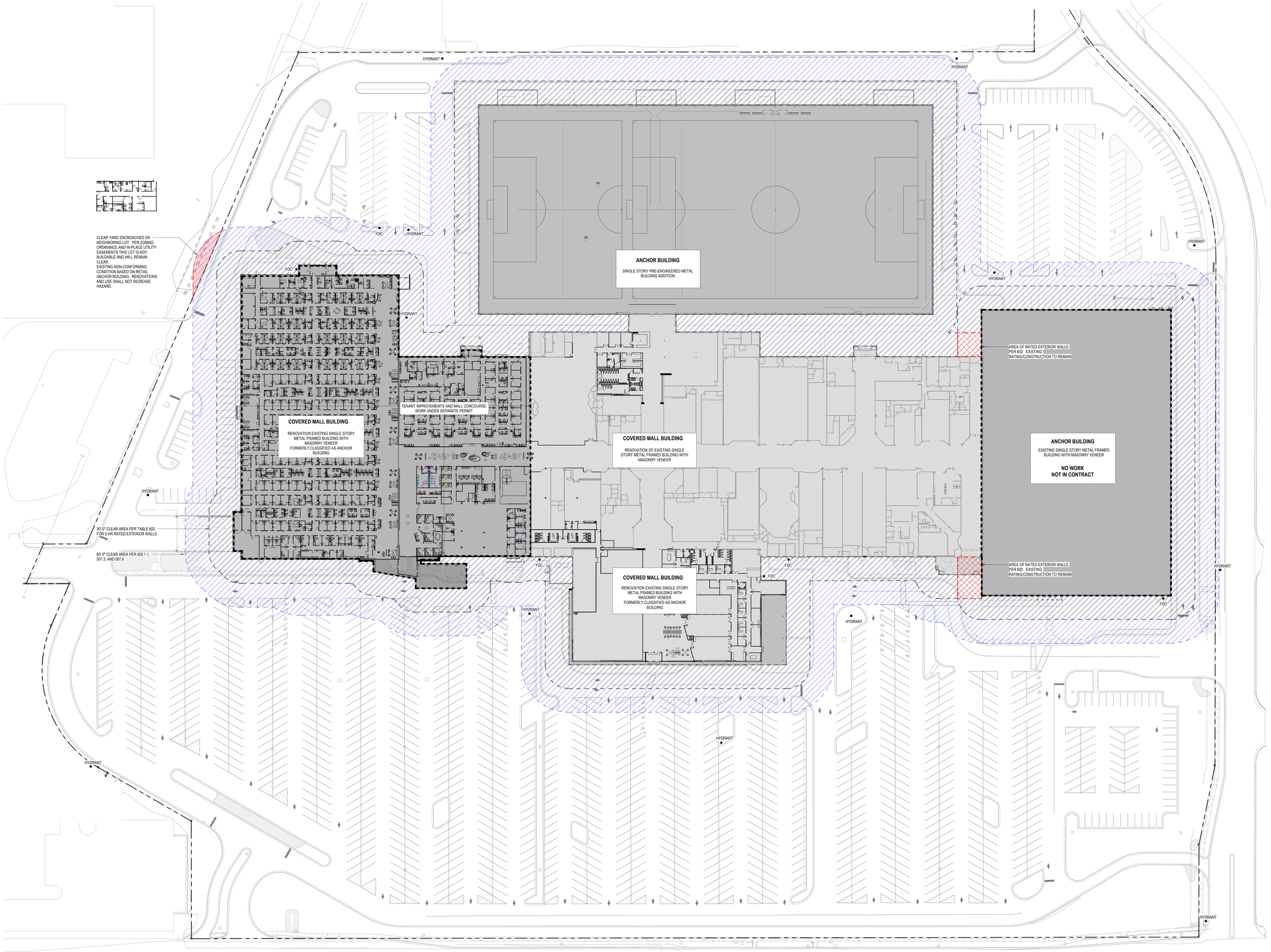


1 FIRE AND LIFE SAFETY - SITE PLAN
1" = 40'-0"


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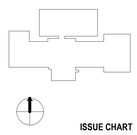

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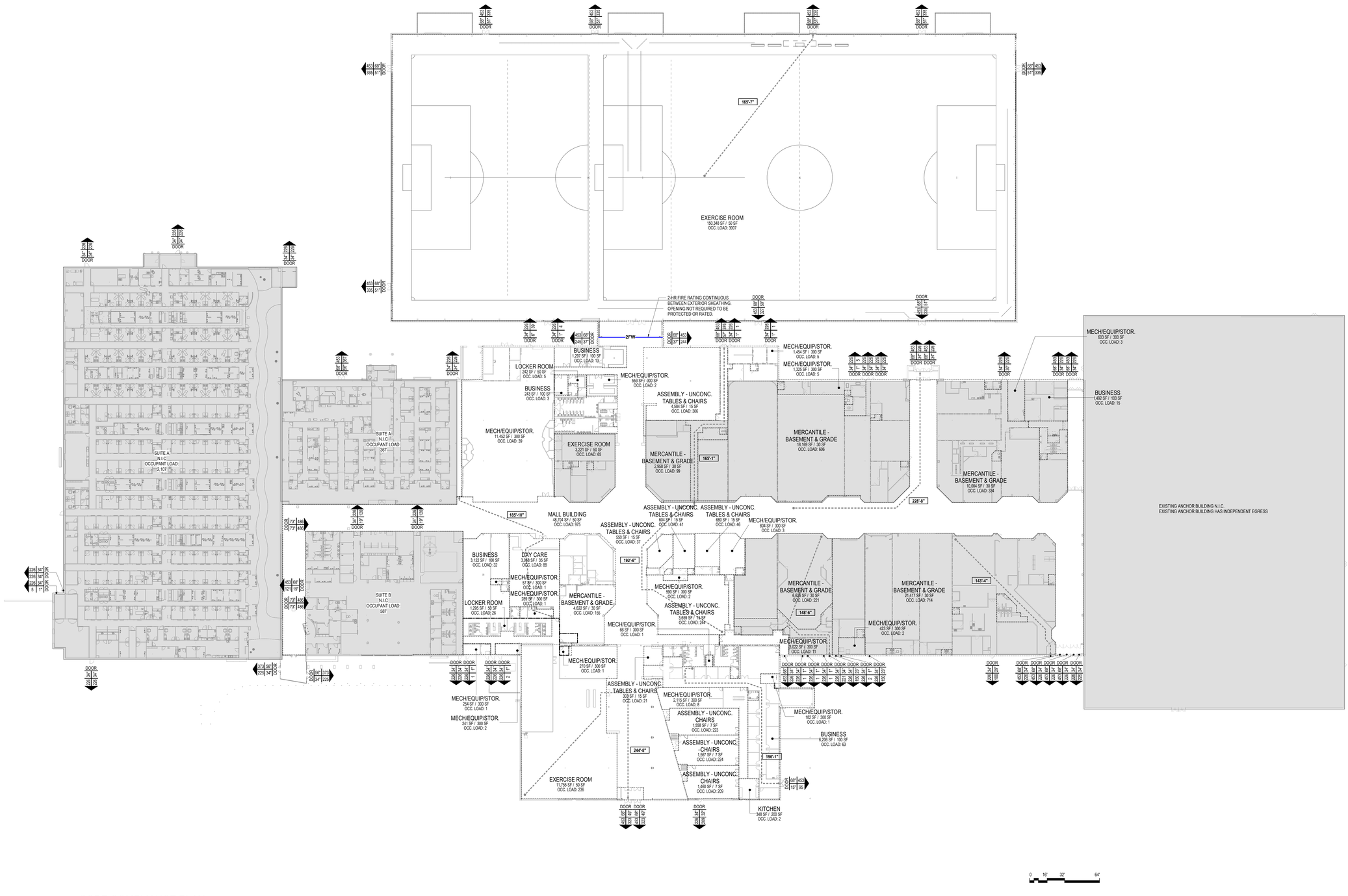


## 2 CODE COMPLIANCE PLAN
1/32" = 1'-0"

## CODE ANALYSIS

FIELDHOUSE ANCHOR BUILDING EGRESS CALCULATION

OCCUPANT LOAD: 3,007
MIN. NUMBER OF EXITS: 4

TOTAL EXIT WIDTH PROVIDED: 680"
TOTAL EXIT WIDTH REQUIRED: 451"

## LEGEND

- DENOTES AREA "NOT IN CONTRACT"
- EXISTING CONSTRUCTION TO REMAIN
- NEW PARTITION
- XXX'-X" EGRESS PATH WITH TRAVEL DISTANCE
- DOOR XX XX / XX XX WIDTH - ACTUAL | OCCUPANT LOAD - ALLOWABLE; WIDTH - REQUIRED | OCCUPANT LOAD - ACTUAL

## LIFE SAFETY NOTES

1. ALL WORK IS TO BE IN ACCORDANCE WITH ALL CODES HAVING AUTHORITY OVER THIS PROJECT.

2. FINAL LOCATION OF FIRE PROTECTION DEVICES MAY BE AT THE DISCRETION OF THE AUTHORITIES HAVING JURISDICTION.


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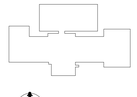

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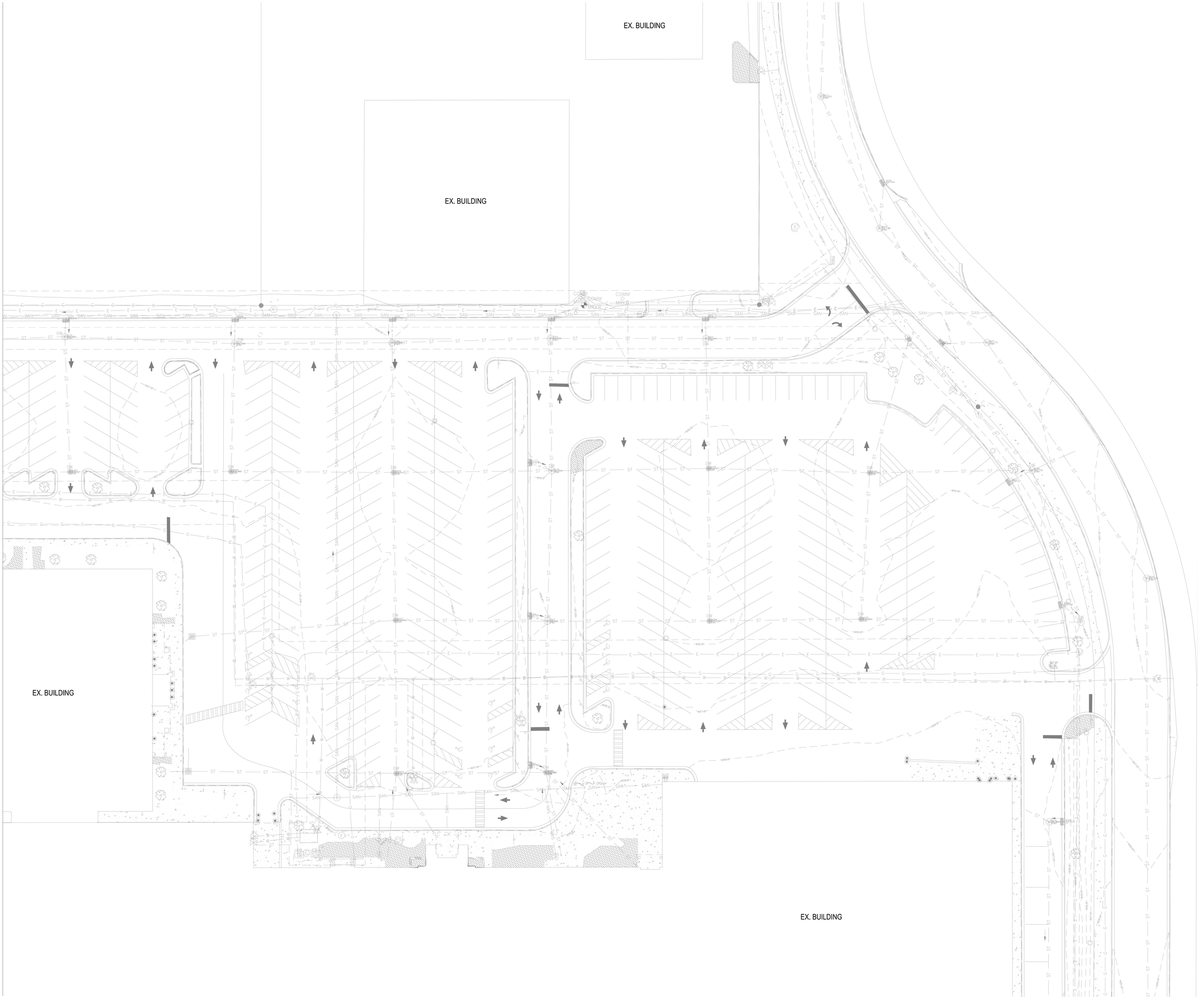


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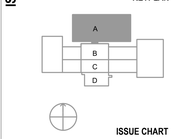


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**EXISTING SITE CONDITIONS- EAST**

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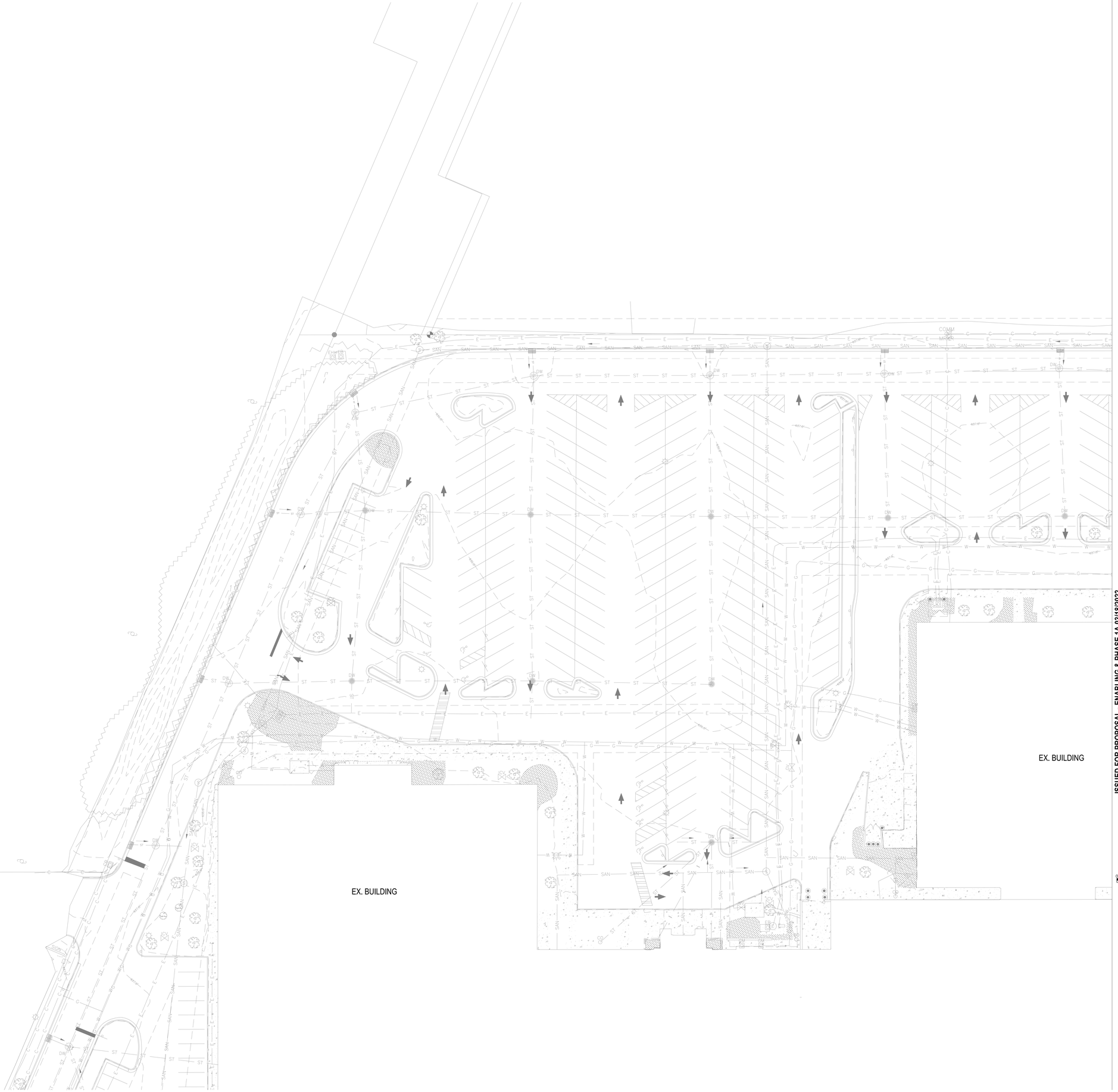


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COLUMBUS, IN 47201

CONTRACTOR
TAYLOR BROS. CONSTRUCTION CO., INC.
4555 MIDDLE RD.
COLUMBUS, IN 47203

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

PROJECT

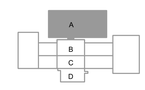
**NEXUSPARK**

columbusindiana
unexpected.unforgettable.

**City of Columbus**

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN




ISSUE CHART

0 20' 40'

| MARK | ISSUE | DATE |
|---|---|---|
| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |

Job Number 023650.000

TITLE

**EXISTING SITE CONDITIONS- WEST**

SHEET NUMBER

**C00-02**

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EX. BUILDING

EX. BUILDING

DO NOT DISTURB EXISTING ELECTRICAL LINE

DO NOT DISTURB EXISTING COMMUNICATIONS LINE

PROTECT ELECTRICAL VAULT

PROTECT EXISTING SANITARY MANHOLE AND ADJUST TO PROPOSED GRADE

PROTECT EXISTING SANITARY SEWER

PROTECT EXISTING CLEANOUT AND ADJUST TO PROPOSED GRADE

REMOVE EXISTING SANITARY MANHOLE

REMOVE EXISTING LIGHT POLE

REMOVE EXISTING TREE STUMP

REMOVE EXISTING LIGHT POLE

ELECTRIC LINE EAST OF PROPOSED ELECTRICAL TIE-IN LOCATION SHOWN ON UTILITY PLAN TO BE ABANDONED

PROTECT EXISTING GAS MAIN EAST OF PROPOSED GAS MAIN TIE-IN LOCATION SHOWN ON UTILITY PLAN

PROTECT EXISTING WATER MAIN EAST OF PROPOSED WATER MAIN TIE-IN LOCATION SHOWN ON UTILITY PLAN

EX. BUILDING

EXISTING WATER METER VAULT AND ALL WATER SERVICE APPURTENANCES TO BE REMOVED OR ABANDONED

EXISTING ELECTRICAL PAD AND ALL APPURTENANCES TO BE REMOVED AND ABANDONED

EXISTING GAS METERS TO BE REMOVED AND GAS SERVICE TO BE ABANDONED

REMOVE EXISTING STORM AREA DRAIN

PROTECT EXISTING CLEANOUT AND ADJUST TO PROPOSED GRADE

EX. BUILDING

GENERAL NOTES

1. ALL DEMOLITION THAT OCCURS WITHIN LIMITS OF PROPOSED FIELDHOUSE TO BE DONE PER FIELDHOUSE DESIGN-BUILD SPECIFICATIONS.
2. ALL STORM AND SANITARY SEWER RELATED ITEMS WITHIN LIMITS OF FULL DEPTH PAVEMENT REMOVAL ARE TO BE REMOVED OR ABANDONED PER SPECIFICATIONS UNLESS OTHERWISE NOTED.
3. ALL ITEMS WITHIN LIMITS OF FULL DEPTH PAVEMENT REMOVAL ARE TO BE REMOVED OR ABANDONED PER SPECIFICATIONS UNLESS OTHERWISE NOTED.
4. EXISTING BUILDING ROOF DRAINS AND SANITARY LATERALS ARE TO BE RECONNECTED AS SHOWN ON 'UTILITY PLAN' DRAWINGS. EXISTING ROOF DRAINS AND SANITARY LATERALS ARE TO BE ABANDONED PER SPECIFICATIONS BEYOND PROPOSED CONNECTIONS. IF ANY ADDITIONAL ROOF DRAINS OR SANITARY LATERALS ARE FOUND DURING CONSTRUCTION ENGINEER IS TO BE NOTIFIED.
5. EXISTING PAVEMENT MARKINGS TO BE REMOVED IN SUCH A MANNER AS TO NOT DAMAGE EXISTING PAVEMENT.

LEGEND

EXTENTS OF FIELDHOUSE DEMOLITION.

EXTENTS OF FULL DEPTH PAVEMENT REMOVAL.

EXTENTS OF PAVEMENT MARKING REMOVAL

EX. BUILDING


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MEP
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MKSK
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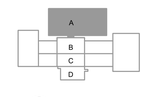


ISSUE CHART

0 20' 40'

| MARK | ISSUE | DATE |
|---|---|---|
| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |

Job Number 023600.000

TITLE

**DEMOLITION PLAN- EAST**

SHEET NUMBER

**C01-01**

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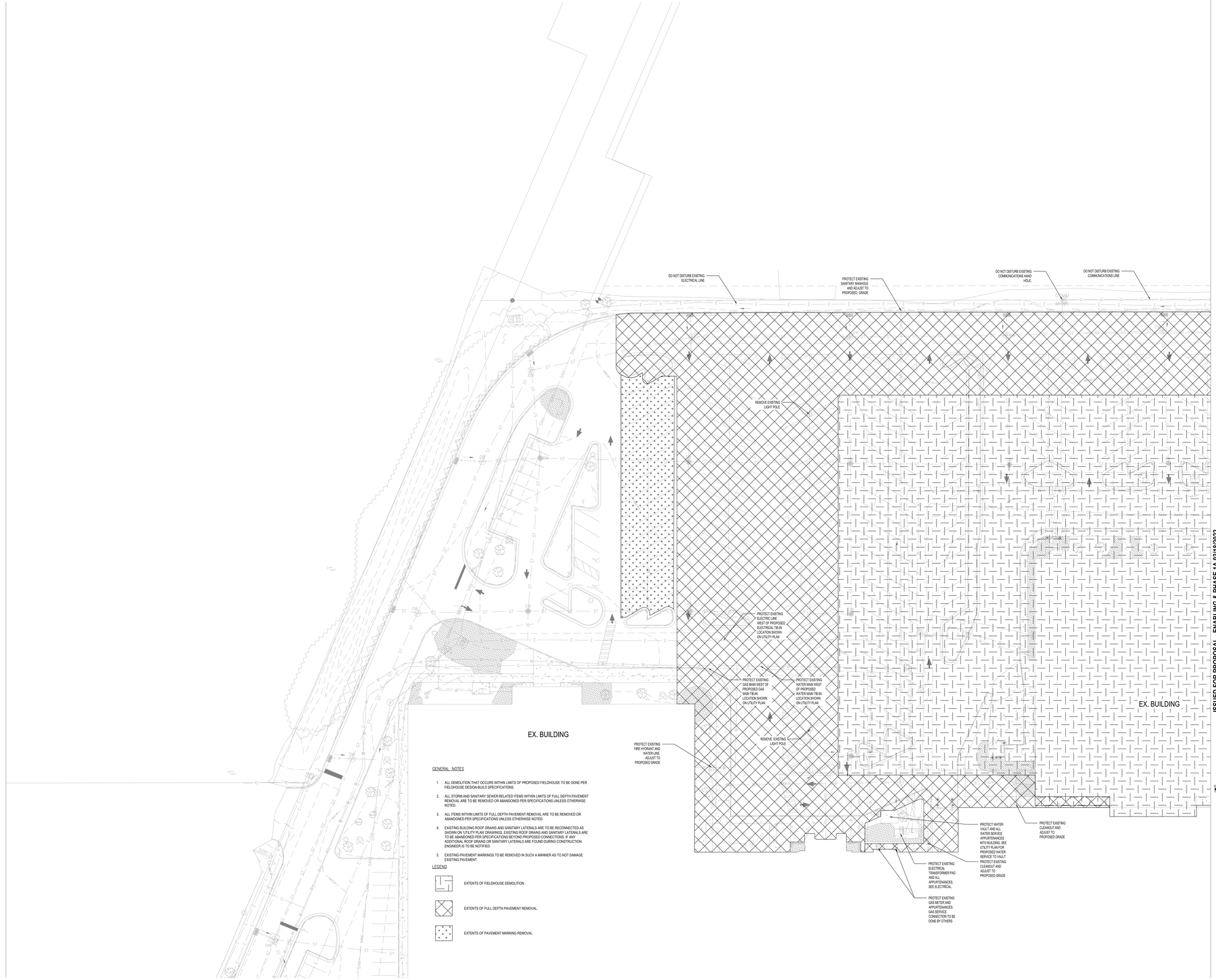


GENERAL NOTES

1. ALL DEMOLITION THAT OCCURS WITHIN LIMITS OF PROPOSED FIELDHOUSE TO BE DONE PER FIELDHOUSE DESIGN-BUILD SPECIFICATIONS.
2. ALL STORM AND SANITARY SEWER RELATED ITEMS WITHIN LIMITS OF FULL DEPTH PAVEMENT REMOVAL ARE TO BE REMOVED OR ABANDONED PER SPECIFICATIONS UNLESS OTHERWISE NOTED.
3. ALL ITEMS WITHIN LIMITS OF FULL DEPTH PAVEMENT REMOVAL ARE TO BE REMOVED OR ABANDONED PER SPECIFICATIONS UNLESS OTHERWISE NOTED.
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5. EXISTING PAVEMENT MARKINGS TO BE REMOVED IN SUCH A MANNER AS TO NOT DAMAGE EXISTING PAVEMENT.

LEGEND

EXTENTS OF FIELDHOUSE DEMOLITION.

EXTENTS OF FULL DEPTH PAVEMENT REMOVAL.

EXTENTS OF PAVEMENT MARKING REMOVAL

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022


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PROJECT

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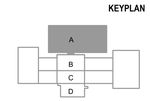


ISSUE CHART

0 20' 40'

| MARK | ISSUE | DATE |
|---|---|---|
| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |

Job Number 0226650.000

TITLE

**DEMOLITION PLAN-WEST**

SHEET NUMBER

**C01-02**

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KEY NOTES:

1. ASPHALT PAVEMENT (H / C50-01)
2. 6" CONCRETE CURB (C / C50-01)
3. CONCRETE SIDEWALK (E / C50-01)
4. COMBINED CONCRETE CURB AND GUTTER (A / C50-01)
5. COMBINED CONCRETE CURB AND REJECT GUTTER (B / C50-01)
6. LINE, 4-IN, SOLID WHITE, PAINT
7. LINE, 4-IN, SOLID BLUE, PAINT
8. CONCRETE GUTTER
9. 'STOP' SIGN (MUTCD R1-1) ON TYPE 1 SQUARE SIGN POST (K / C50-01)
10. 'DO NOT ENTER' SIGN (30-IN X 30-IN) (MUTCD R5-1) ON TYPE 1 SQUARE SIGN POST (K / C50-01)
11. ADA ACCESSIBLE (MUTCD R7-8) ON TYPE 1 SQUARE SIGN POST PER ADA STANDARDS
12. ADA ACCESSIBLE (MUTCD R7-8) WITH VAN ACCESSIBLE SIGN (R7-8P) ON TYPE 1 SQUARE SIGN POST PER ADA STANDARDS
13. 8' CONCRETE PARKING BARRIER PER INDOT STANDARD SPECIFICATIONS SECTION 600. PARKING BARRIER TO BE PLACED 2-FT FROM FACE OF CURB AND SET PERPENDICULAR TO PARKING SPACE LINES. TO BE PLACED AT ALL ANGLED PARKING SPACES ALONG BUILDING
14. TRANSVERSE MARKING, 24-IN, SOLID WHITE, PAINT, STOP BAR
15. THRU ARROW, SOLID WHITE, PAINT, PER INDOT STANDARD SPECIFICATIONS
16. REMOVEABLE BOLLARD PER DETAIL (M / C50-01)
17. 6-IN DIA. CONCRETE BOLLARD (I / C50-01)
18. VEHICULAR CONCRETE PAVEMENT (J / C50-01)
19. AIR HANDLING UNIT CONCRETE PADS - SEE MECHANICAL AND STRUCTURAL
20. SIDEWALK BACK CURB (C / C50-01)

G. GRASS

REMOVE AND REPLACE 'STOP' SIGN AND 'NO TRUCKS' SIGN IN-KIND

REMOVE EXISTING SIGN

REMOVE EXISTING STOP SIGN

TRANSITION FROM REJECT TO STANDARD GUTTER

TRANSITION FROM REJECT TO STANDARD GUTTER

PAVEMENT REPLACEMENT LIMITS (TYP.)

LIMITS OF VEHICULAR CONCRETE PAVEMENT

LIMITS OF CONCRETE PAVEMENT PARKING SPACES. TO BE ENTIRE ROW OF SPACES ADJACENT TO SIDEWALK

(TYP. 14)

BUILDING (SEE ARCH)


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PROJECT

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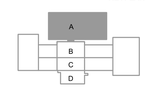


ISSUE CHART

0 20' 40'

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|---|---|---|
| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |

Job Number 023650.000

TITLE

**PROPOSED SITE CONDITIONS - EAST**

SHEET NUMBER

**C10-01**

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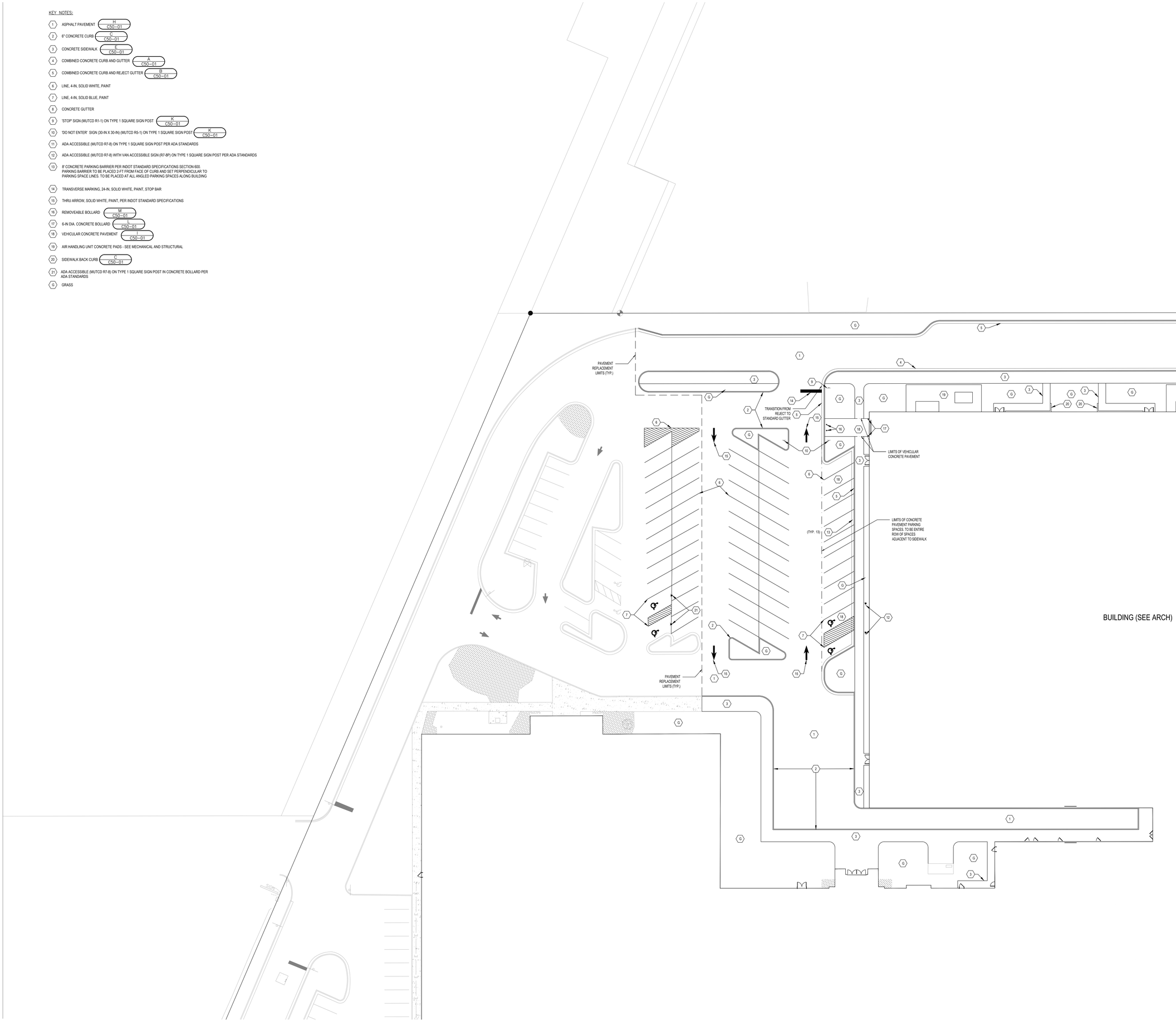
KEY NOTES:

1. ASPHALT PAVEMENT (H / C50-01)
2. 6" CONCRETE CURB (C / C50-01)
3. CONCRETE SIDEWALK (E / C50-01)
4. COMBINED CONCRETE CURB AND GUTTER (A / C50-01)
5. COMBINED CONCRETE CURB AND REJECT GUTTER (B / C50-01)
6. LINE, 4-IN, SOLID WHITE, PAINT
7. LINE, 4-IN, SOLID BLUE, PAINT
8. CONCRETE GUTTER
9. 'STOP' SIGN (MUTCD R1-1) ON TYPE 1 SQUARE SIGN POST (K / C50-01)
10. 'DO NOT ENTER' SIGN (30-IN X 30-IN) (MUTCD R5-1) ON TYPE 1 SQUARE SIGN POST (K / C50-01)
11. ADA ACCESSIBLE (MUTCD R7-8) ON TYPE 1 SQUARE SIGN POST PER ADA STANDARDS
12. ADA ACCESSIBLE (MUTCD R7-8) WITH VAN ACCESSIBLE SIGN (R7-8P) ON TYPE 1 SQUARE SIGN POST PER ADA STANDARDS
13. 8' CONCRETE PARKING BARRIER PER INDOT STANDARD SPECIFICATIONS SECTION 600. PARKING BARRIER TO BE PLACED 2-FT FROM FACE OF CURB AND SET PERPENDICULAR TO PARKING SPACE LINES. TO BE PLACED AT ALL ANGLED PARKING SPACES ALONG BUILDING
14. TRANSVERSE MARKING, 24-IN, SOLID WHITE, PAINT, STOP BAR
15. THRU ARROW, SOLID WHITE, PAINT, PER INDOT STANDARD SPECIFICATIONS
16. REMOVEABLE BOLLARD (M / C50-01)
17. 6-IN DIA. CONCRETE BOLLARD (L / C50-01)
18. VEHICULAR CONCRETE PAVEMENT (I / C50-01)
19. AIR HANDLING UNIT CONCRETE PADS - SEE MECHANICAL AND STRUCTURAL
20. SIDEWALK BACK CURB (C / C50-01)
21. ADA ACCESSIBLE (MUTCD R7-8) ON TYPE 1 SQUARE SIGN POST IN CONCRETE BOLLARD PER ADA STANDARDS
G. GRASS





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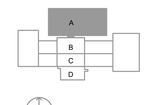


ISSUE CHART

0 20' 40'

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| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |

Job Number 023650.000

TITLE

**PROPOSED SITE CONDITIONS - WEST**

SHEET NUMBER

**C10-02**

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## GENERAL NOTES:

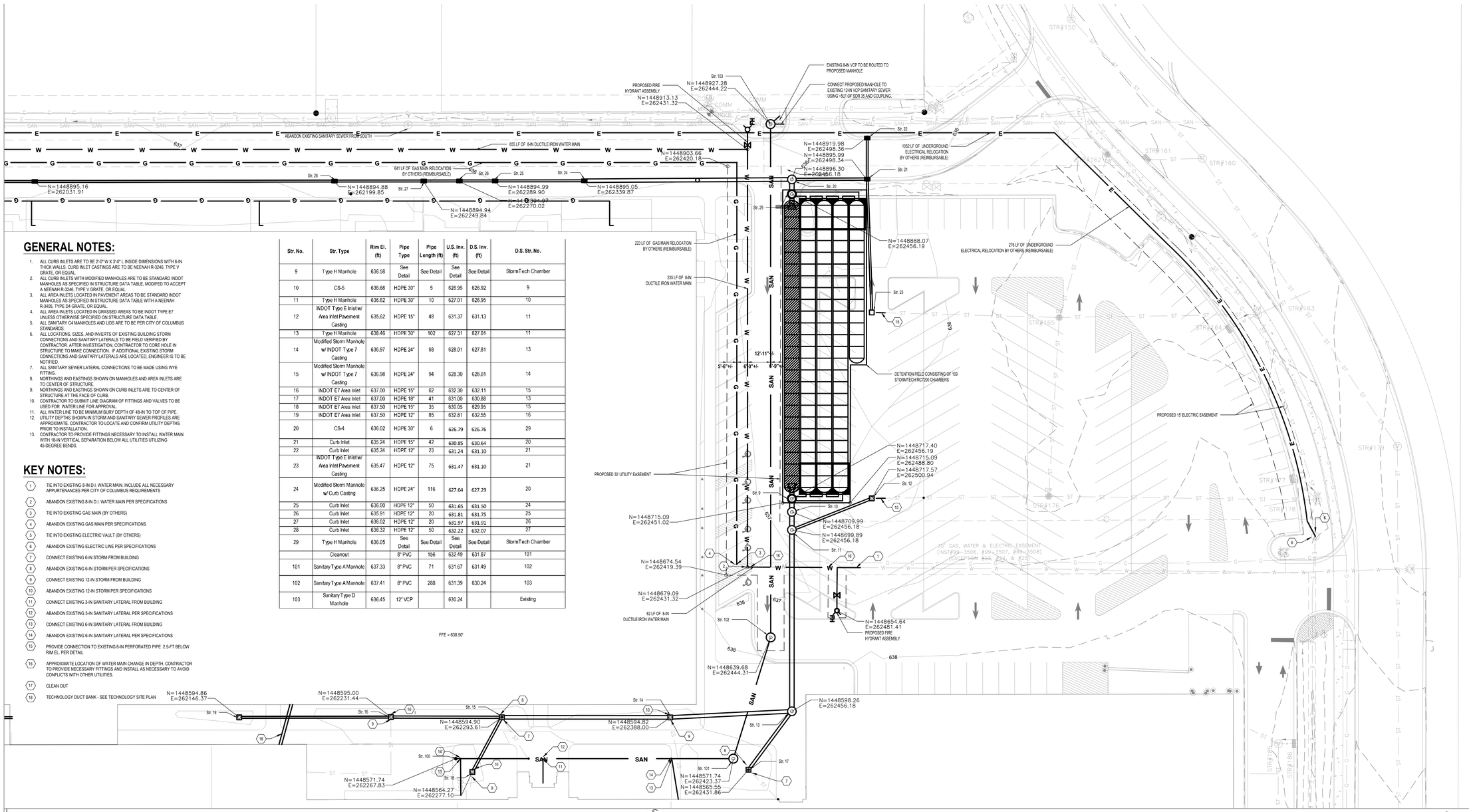
1. ALL CURB INLETS ARE TO BE 2'-0" W X 3'-0" L INSIDE DIMENSIONS WITH 6-IN THICK WALLS. CURB INLET CASTINGS ARE TO BE NEENAH R-3246, TYPE V GRATE, OR EQUAL.
2. ALL CURB INLETS WITH MODIFIED MANHOLES ARE TO BE STANDARD INDOT MANHOLES AS SPECIFIED IN STRUCTURE DATA TABLE, MODIFIED TO ACCEPT A NEENAH R-3246, TYPE V GRATE, OR EQUAL.
3. ALL AREA INLETS LOCATED IN PAVEMENT AREAS TO BE STANDARD INDOT MANHOLES AS SPECIFIED IN STRUCTURE DATA TABLE WITH A NEENAH R-3405, TYPE D4 GRATE, OR EQUAL.
4. ALL AREA INLETS LOCATED IN GRASSED AREAS TO BE INDOT TYPE E7 UNLESS OTHERWISE SPECIFIED ON STRUCTURE DATA TABLE.
5. ALL SANITARY C4 MANHOLES AND LIDS ARE TO BE PER CITY OF COLUMBUS STANDARDS.
6. ALL LOCATIONS, SIZES, AND INVERTS OF EXISTING BUILDING STORM CONNECTIONS AND SANITARY LATERALS TO BE FIELD VERIFIED BY CONTRACTOR. AFTER INVESTIGATION, CONTRACTOR TO CORE HOLE IN STRUCTURE TO MAKE CONNECTION. IF ADDITIONAL EXISTING STORM CONNECTIONS AND SANITARY LATERALS ARE LOCATED, ENGINEER IS TO BE NOTIFIED.
7. ALL SANITARY SEWER LATERAL CONNECTIONS TO BE MADE USING WYE FITTING.
8. NORTHINGS AND EASTINGS SHOWN ON MANHOLES AND AREA INLETS ARE TO CENTER OF STRUCTURE.
9. NORTHINGS AND EASTINGS SHOWN ON CURB INLETS ARE TO CENTER OF STRUCTURE AT THE FACE OF CURB.
10. CONTRACTOR TO SUBMIT LINE DIAGRAM OF FITTINGS AND VALVES TO BE USED FOR WATER LINE FOR APPROVAL.
11. ALL WATER LINE TO BE MINIMUM BURY DEPTH OF 48-IN TO TOP OF PIPE.
12. UTILITY DEPTHS SHOWN IN STORM AND SANITARY SEWER PROFILES ARE APPROXIMATE. CONTRACTOR TO LOCATE AND CONFIRM UTILITY DEPTHS PRIOR TO INSTALLATION.
13. CONTRACTOR TO PROVIDE FITTINGS NECESSARY TO INSTALL WATER MAIN WITH 18-IN VERTICAL SEPARATION BELOW ALL UTILITIES UTILIZING 45-DEGREE BENDS.

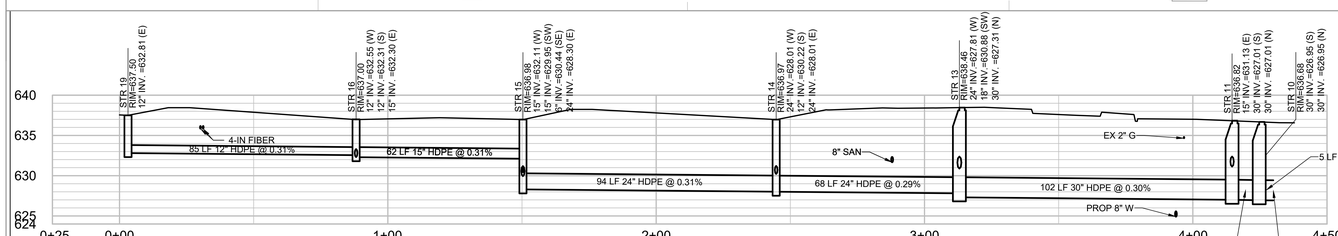
## KEY NOTES:

1. TIE INTO EXISTING 8-IN D.I. WATER MAIN. INCLUDE ALL NECESSARY APPURTENANCES PER CITY OF COLUMBUS REQUIREMENTS
2. ABANDON EXISTING 8-IN D.I. WATER MAIN PER SPECIFICATIONS
3. TIE INTO EXISTING GAS MAIN (BY OTHERS)
4. ABANDON EXISTING GAS MAIN PER SPECIFICATIONS
5. TIE INTO EXISTING ELECTRIC VAULT (BY OTHERS)
6. ABANDON EXISTING ELECTRIC LINE PER SPECIFICATIONS
7. CONNECT EXISTING 6-IN STORM FROM BUILDING
8. ABANDON EXISTING 6-IN STORM PER SPECIFICATIONS
9. CONNECT EXISTING 12-IN STORM FROM BUILDING
10. ABANDON EXISTING 12-IN STORM PER SPECIFICATIONS
11. CONNECT EXISTING 3-IN SANITARY LATERAL FROM BUILDING
12. ABANDON EXISTING 3-IN SANITARY LATERAL PER SPECIFICATIONS
13. CONNECT EXISTING 6-IN SANITARY LATERAL FROM BUILDING
14. ABANDON EXISTING 6-IN SANITARY LATERAL PER SPECIFICATIONS
15. PROVIDE CONNECTION TO EXISTING 6-IN PERFORATED PIPE 2.5-FT BELOW RIM EL. PER DETAIL
16. APPROXIMATE LOCATION OF WATER MAIN CHANGE IN DEPTH. CONTRACTOR TO PROVIDE NECESSARY FITTINGS AND INSTALL AS NECESSARY TO AVOID CONFLICTS WITH OTHER UTILITIES.
17. CLEAN OUT
18. TECHNOLOGY DUCT BANK - SEE TECHNOLOGY SITE PLAN

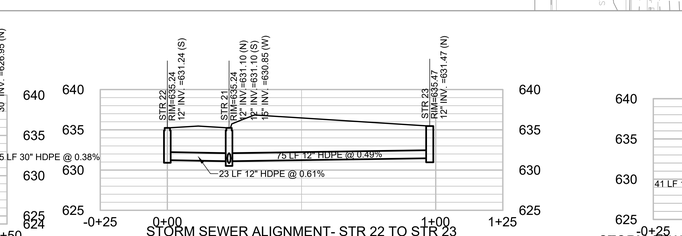
| Str. No. | Str. Type | Rim El. (ft) | Pipe Type | Pipe Length (ft) | U.S. Inv. (ft) | D.S. Inv. (ft) | D.S. Str. No. |
|---|---|---|---|---|---|---|---|
| 9 | Type H Manhole | 636.58 | See Detail | See Detail | See Detail | See Detail | StormTech Chamber |
| 10 | CS-5 | 636.68 | HDPE 30" | 5 | 626.95 | 626.92 | 9 |
| 11 | Type H Manhole | 636.82 | HDPE 30" | 10 | 627.01 | 626.95 | 10 |
| 12 | INDOT Type E Inlet w/ Area Inlet Pavement Casting | 635.62 | HDPE 15" | 48 | 631.37 | 631.13 | 11 |
| 13 | Type H Manhole | 638.46 | HDPE 30" | 102 | 627.31 | 627.01 | 11 |
| 14 | Modified Storm Manhole w/ INDOT Type 7 Casting | 636.97 | HDPE 24" | 68 | 628.01 | 627.81 | 13 |
| 15 | Modified Storm Manhole w/ INDOT Type 7 Casting | 636.98 | HDPE 24" | 94 | 628.30 | 628.01 | 14 |
| 16 | INDOT E7 Area Inlet | 637.00 | HDPE 15" | 62 | 632.30 | 632.11 | 15 |
| 17 | INDOT E7 Area Inlet | 637.00 | HDPE 18" | 41 | 631.00 | 630.88 | 13 |
| 18 | INDOT E7 Area Inlet | 637.50 | HDPE 15" | 35 | 630.05 | 629.95 | 15 |
| 19 | INDOT E7 Area Inlet | 637.50 | HDPE 12" | 85 | 632.81 | 632.55 | 16 |
| 20 | CS-4 | 636.02 | HDPE 30" | 6 | 626.79 | 626.76 | 29 |
| 21 | Curb Inlet | 635.24 | HDPE 15" | 42 | 630.85 | 630.64 | 20 |
| 22 | Curb Inlet | 635.24 | HDPE 12" | 23 | 631.24 | 631.10 | 21 |
| 23 | INDOT Type E Inlet w/ Area Inlet Pavement Casting | 635.47 | HDPE 12" | 75 | 631.47 | 631.10 | 21 |
| 24 | Modified Storm Manhole w/ Curb Casting | 636.25 | HDPE 24" | 116 | 627.64 | 627.29 | 20 |
| 25 | Curb Inlet | 636.00 | HDPE 12" | 50 | 631.65 | 631.50 | 24 |
| 26 | Curb Inlet | 635.91 | HDPE 12" | 20 | 631.81 | 631.75 | 25 |
| 27 | Curb Inlet | 636.02 | HDPE 12" | 20 | 631.97 | 631.91 | 26 |
| 28 | Curb Inlet | 636.32 | HDPE 12" | 50 | 632.22 | 632.07 | 27 |
| 29 | Type H Manhole | 636.05 | See Detail | See Detail | See Detail | See Detail | StormTech Chamber |
| | Cleanout | | 8" PVC | 156 | 632.49 | 631.87 | 101 |
| 101 | Sanitary Type A Manhole | 637.33 | 8" PVC | 71 | 631.67 | 631.49 | 102 |
| 102 | Sanitary Type A Manhole | 637.41 | 8" PVC | 288 | 631.39 | 630.24 | 103 |
| 103 | Sanitary Type D Manhole | 638.45 | 12" VCP | | 630.24 | | Existing |

FFE = 638.50'




STORM SEWER ALIGNMENT- STR 19 TO STR 10

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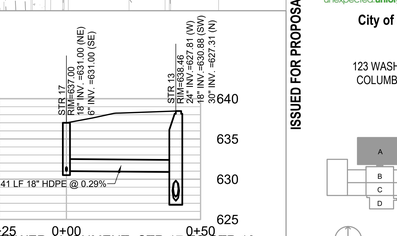


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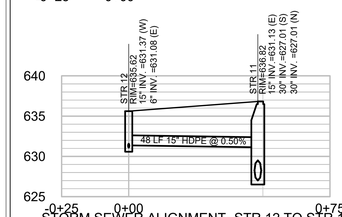


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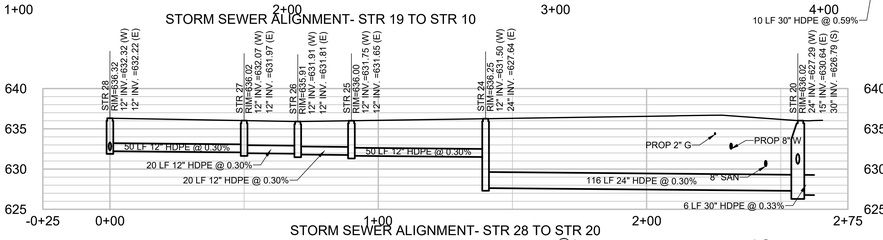


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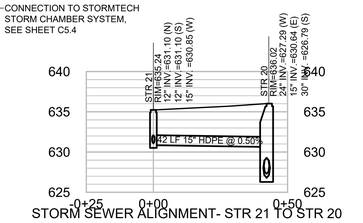


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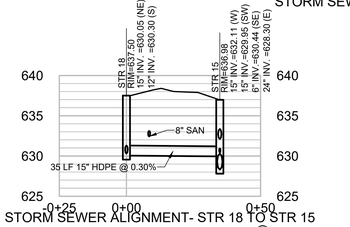


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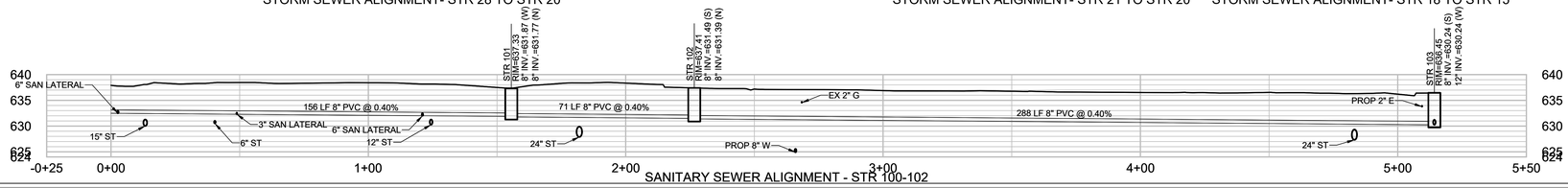


SANITARY SEWER ALIGNMENT - STR 100-102


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NASHVILLE, TN 37204

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FACILITY
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2380 25TH ST.
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TAYLOR BROS. CONSTRUCTION CO., INC.
4555 MIDDLE RD.
COLUMBUS, IN 47203


ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

PROJECT

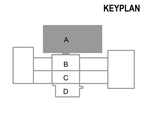
NEXUSPARK

columbusindiana
unexpected.unforgettable.

City of Columbus

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN




ISSUE CHART

0 20' 40'

| MARK | ISSUE | DATE |
|---|---|---|
| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |

Job Number 023600.000

TITLE

PROPOSED UTILITY PLAN - EAST

SHEET NUMBER

C20-01

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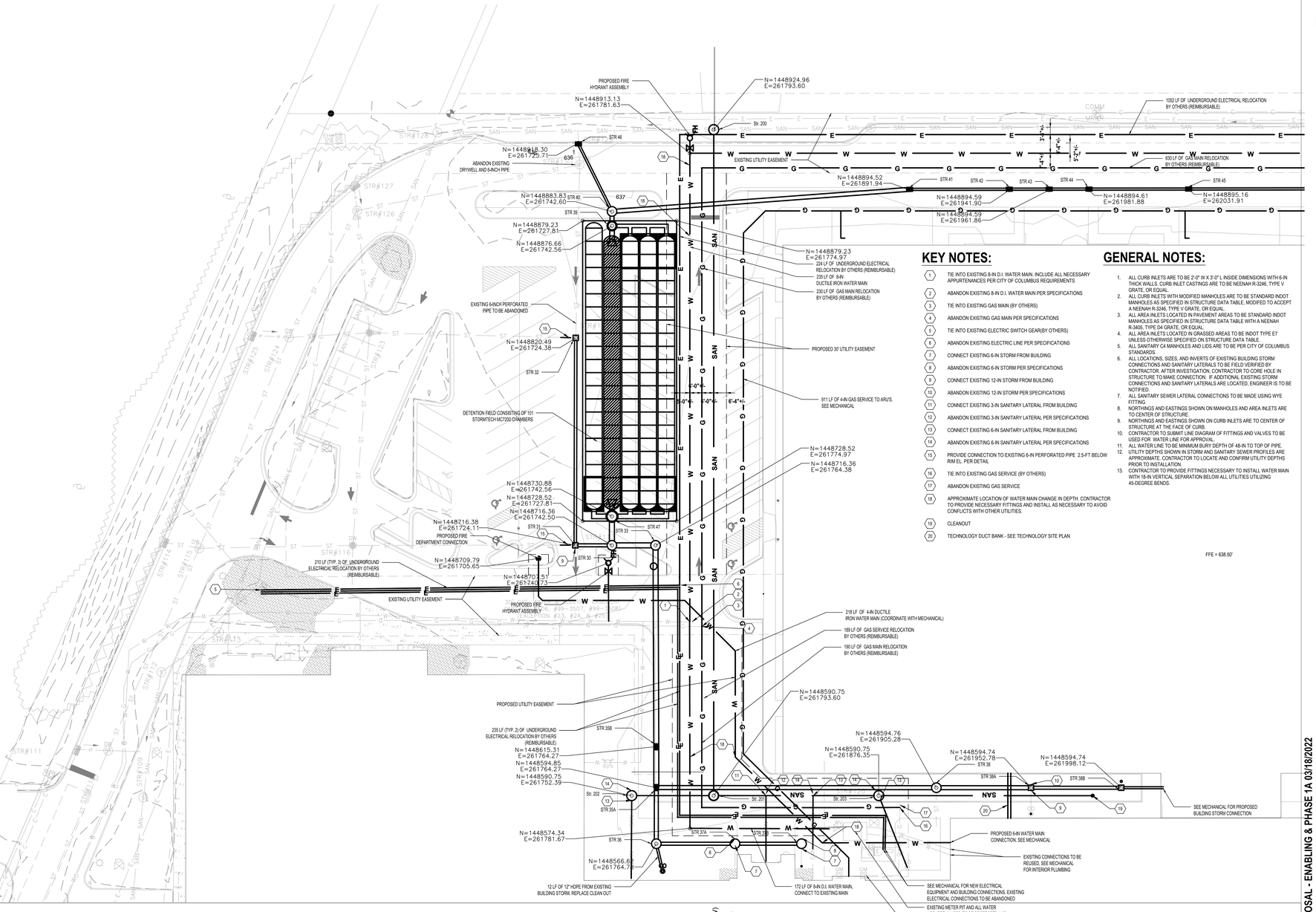
| Str. No. | Str. Type | Rim El. (ft) | Pipe Type | Pipe Length (ft) | U.S. Inv. (ft) | D.S. Inv. (ft) | D.S. Str. No. |
|---|---|---|---|---|---|---|---|
| 30 | CS-5 | 636.31 | HDPE 30" | 12 | 627.03 | 626.99 | 47 |
| 31 | INDOT Type E Inlet w/ Area Inlet Pavement Casting | 635.98 | HDPE 18" | 18 | 630.65 | 630.60 | 30 |
| 32 | INDOT Type E Inlet w/ Area Inlet Pavement Casting | 635.46 | HDPE 15" | 104 | 631.21 | 630.90 | 31 |
| 33 | Type H Manhole | 636.84 | HDPE 30" | 22 | 627.20 | 627.13 | 30 |
| 35A | Modified Storm Manhole w/ Curb Casting | 637.07 | HDPE 30" | 20 | 630.95 | 630.89 | 35B |
| 35B | Modified Storm Manhole w/ Curb Casting | 637.23 | HDPE 30" | 101 | 628.00 | 627.3 | 33 |
| 36 | Standard Storm Manhole | 638.12 | HDPE 24" | 28 | 631.54 | 631.45 | 35A |
| 37A | Nyloplast Drainage Basin | 638.34 | HDPE 18" | 40 | 632.16 | 632.04 | 36 |
| 37B | Nyloplast Drainage Basin | 638.36 | HDPE 18" | 33 | 632.36 | 632.26 | 37A |
| 38 | Standard Storm Manhole | 637.92 | HDPE 24" | 141 | 631.87 | 631.45 | 35A |
| 38A | INDOT Type E Inlet w/ Area Inlet Pavement Casting | 637.84 | HDPE 24" | 47 | 632.11 | 631.97 | 38 |
| 38B | INDOT Type E Inlet w/ Area Inlet Pavement Casting | 637.84 | HDPE 18" | 45 | 632.75 | 632.61 | 38A |
| 39 | Type H Manhole | 636.87 | See Detail | See Detail | See Detail | See Detail | StormTech Chamber |
| 40 | CS-4 | 636.93 | HDPE 24" | 9 | 630.13 | 630.10 | 39 |
| 41 | Modified Storm Manhole w/ Curb Casting | 637.28 | HDPE 24" | 150 | 630.64 | 630.23 | 40 |
| 42 | Curb Inlet | 636.15 | HDPE 12" | 50 | 631.79 | 631.64 | 41 |
| 43 | Curb Inlet | 636.05 | HDPE 12" | 20 | 631.95 | 631.89 | 42 |
| 44 | Curb Inlet | 636.14 | HDPE 12" | 20 | 632.11 | 632.05 | 43 |
| 45 | Curb Inlet | 636.51 | HDPE 12" | 73 | 632.43 | 632.21 | 44 |
| | | 636.51 | HDPE 12" | 145 | 633.00 | 632.32 | 28 |
| 46 | Curb Inlet | 634.81 | HDPE 12" | 38 | 631.48 | 631.34 | 40 |
| 47 | Type H Manhole | 636.35 | See Detail | See Detail | See Detail | See Detail | StormTech Chamber |
| 200 | Sanitary Type A Manhole | 637.04 | 12" VCP | | 628.17 | | Existing |
| 201 | Sanitary Type A Manhole | 637.42 | PVC 8" | 334 | 629.61 | 628.27 | 200 |
| 202 | Sanitary Type A Manhole | 637.79 | PVC 8" | 41 | 629.87 | 629.71 | 201 |
| 203 | Sanitary Type A Manhole | 637.91 | PVC 8" | 83 | 630.04 | 629.71 | 201 |

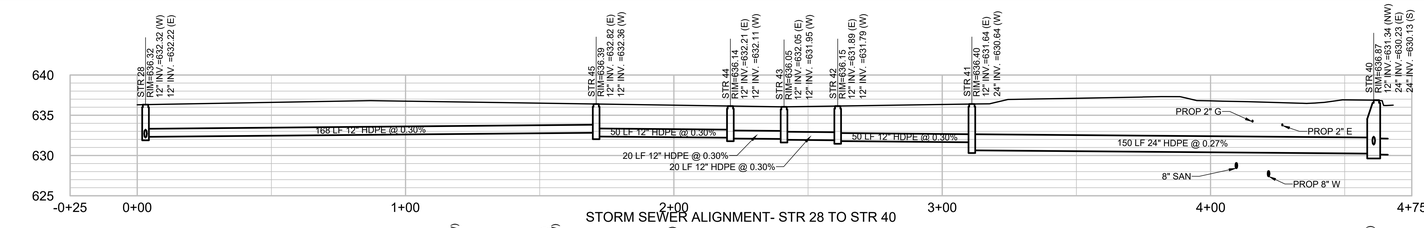



## KEY NOTES:

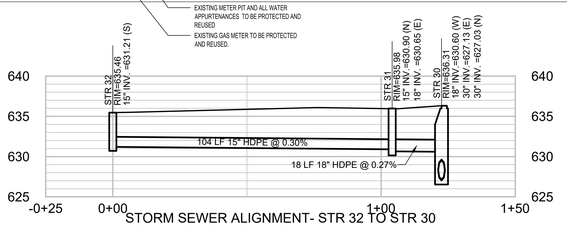
1. TIE INTO EXISTING 8-IN D.I. WATER MAIN. INCLUDE ALL NECESSARY APPURTENANCES PER CITY OF COLUMBUS REQUIREMENTS
2. ABANDON EXISTING 8-IN D.I. WATER MAIN PER SPECIFICATIONS
3. TIE INTO EXISTING GAS MAIN (BY OTHERS)
4. ABANDON EXISTING GAS MAIN PER SPECIFICATIONS
5. TIE INTO EXISTING ELECTRIC SWITCH GEAR(BY OTHERS)
6. ABANDON EXISTING ELECTRIC LINE PER SPECIFICATIONS
7. CONNECT EXISTING 6-IN STORM FROM BUILDING
8. ABANDON EXISTING 6-IN STORM PER SPECIFICATIONS
9. CONNECT EXISTING 12-IN STORM FROM BUILDING
10. ABANDON EXISTING 12-IN STORM PER SPECIFICATIONS
11. CONNECT EXISTING 3-IN SANITARY LATERAL FROM BUILDING
12. ABANDON EXISTING 3-IN SANITARY LATERAL PER SPECIFICATIONS
13. CONNECT EXISTING 6-IN SANITARY LATERAL FROM BUILDING
14. ABANDON EXISTING 6-IN SANITARY LATERAL PER SPECIFICATIONS
15. PROVIDE CONNECTION TO EXISTING 6-IN PERFORATED PIPE 2.5-FT BELOW RIM EL. PER DETAIL
16. TIE INTO EXISTING GAS SERVICE (BY OTHERS)
17. ABANDON EXISTING GAS SERVICE
18. APPROXIMATE LOCATION OF WATER MAIN CHANGE IN DEPTH. CONTRACTOR TO PROVIDE NECESSARY FITTINGS AND INSTALL AS NECESSARY TO AVOID CONFLICTS WITH OTHER UTILITIES.
19. CLEANOUT
20. TECHNOLOGY DUCT BANK - SEE TECHNOLOGY SITE PLAN

## GENERAL NOTES:

1. ALL CURB INLETS ARE TO BE 2'-0" W X 3'-0" L INSIDE DIMENSIONS WITH 6-IN THICK WALLS. CURB INLET CASTINGS ARE TO BE NEENAH R-3246, TYPE V GRATE, OR EQUAL.
2. ALL CURB INLETS WITH MODIFIED MANHOLES ARE TO BE STANDARD INDOT MANHOLES AS SPECIFIED IN STRUCTURE DATA TABLE, MODIFIED TO ACCEPT A NEENAH R-3246, TYPE V GRATE, OR EQUAL.
3. ALL AREA INLETS LOCATED IN PAVEMENT AREAS TO BE STANDARD INDOT MANHOLES AS SPECIFIED IN STRUCTURE DATA TABLE WITH A NEENAH R-3405, TYPE D4 GRATE, OR EQUAL.
4. ALL AREA INLETS LOCATED IN GRASSED AREAS TO BE INDOT TYPE E7 UNLESS OTHERWISE SPECIFIED ON STRUCTURE DATA TABLE.
5. ALL SANITARY C4 MANHOLES AND LIDS ARE TO BE PER CITY OF COLUMBUS STANDARDS.
6. ALL LOCATIONS, SIZES, AND INVERTS OF EXISTING BUILDING STORM CONNECTIONS AND SANITARY LATERALS TO BE FIELD VERIFIED BY CONTRACTOR. AFTER INVESTIGATION, CONTRACTOR TO CORE HOLE IN STRUCTURE TO MAKE CONNECTION. IF ADDITIONAL EXISTING STORM CONNECTIONS AND SANITARY LATERALS ARE LOCATED, ENGINEER IS TO BE NOTIFIED.
7. ALL SANITARY SEWER LATERAL CONNECTIONS TO BE MADE USING WYE FITTING.
8. NORTHINGS AND EASTINGS SHOWN ON MANHOLES AND AREA INLETS ARE TO CENTER OF STRUCTURE.
9. NORTHINGS AND EASTINGS SHOWN ON CURB INLETS ARE TO CENTER OF STRUCTURE AT THE FACE OF CURB.
10. CONTRACTOR TO SUBMIT LINE DIAGRAM OF FITTINGS AND VALVES TO BE USED FOR WATER LINE FOR APPROVAL.
11. ALL WATER LINE TO BE MINIMUM BURY DEPTH OF 48-IN TO TOP OF PIPE.
12. UTILITY DEPTHS SHOWN IN STORM AND SANITARY SEWER PROFILES ARE APPROXIMATE. CONTRACTOR TO LOCATE AND CONFIRM UTILITY DEPTHS PRIOR TO INSTALLATION.
13. CONTRACTOR TO PROVIDE FITTINGS NECESSARY TO INSTALL WATER MAIN WITH 18-IN VERTICAL SEPARATION BELOW ALL UTILITIES UTILIZING 45-DEGREE BENDS.




STORM SEWER ALIGNMENT- STR 28 TO STR 40

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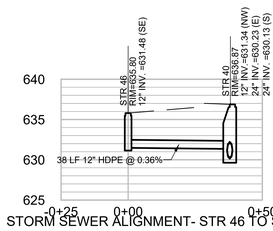


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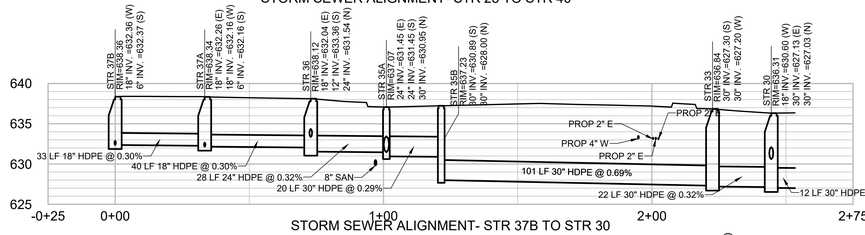


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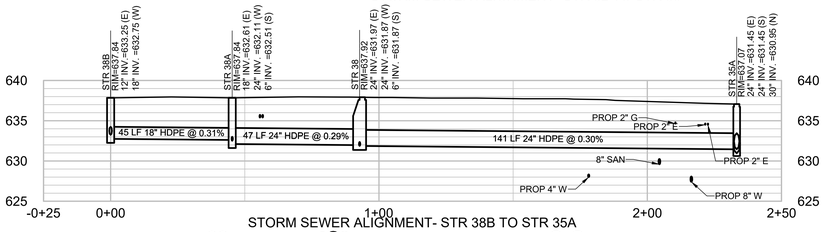


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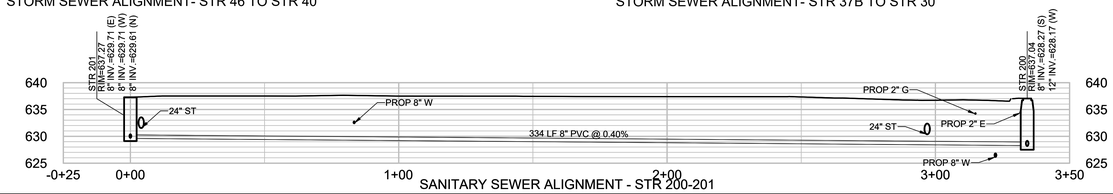
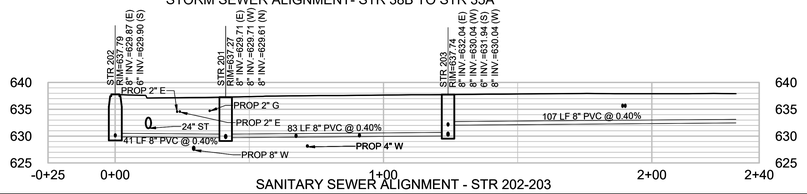



SANITARY SEWER ALIGNMENT - STR 200-201




SANITARY SEWER ALIGNMENT - STR 202-203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ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

PROJECT

**NEXUSPARK**

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unexpected.unforgettable.

City of Columbus

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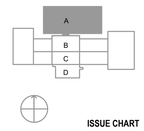
COLUMBUS, IN 47201

KEYPLAN




ISSUE CHART

0 20' 40'

| MARK | ISSUE | DATE |
|---|---|---|
| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |

Job Number 020690.000

TITLE

**PROPOSED UTILITY PLAN- WEST**

SHEET NUMBER

**C20-02**

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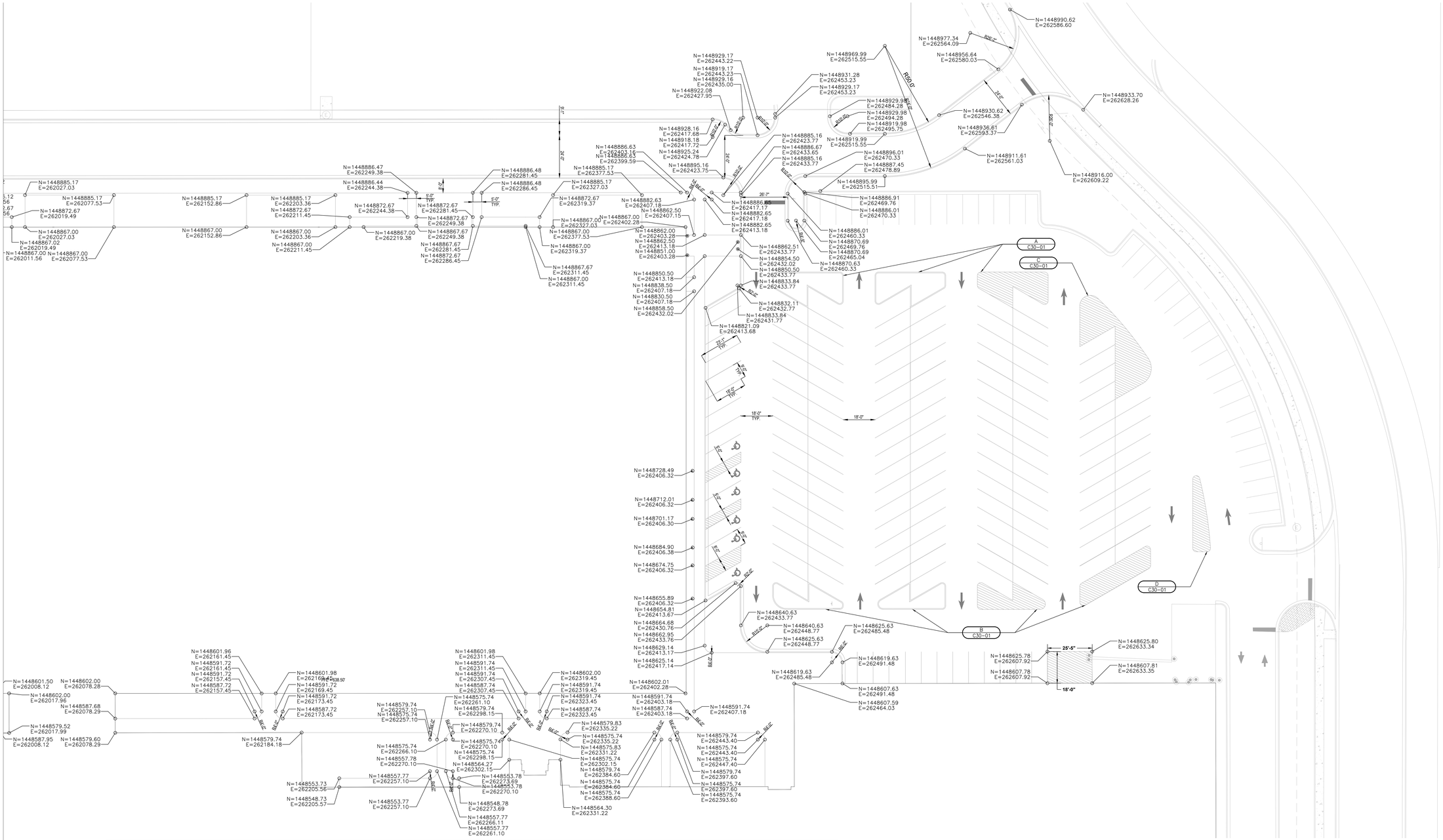
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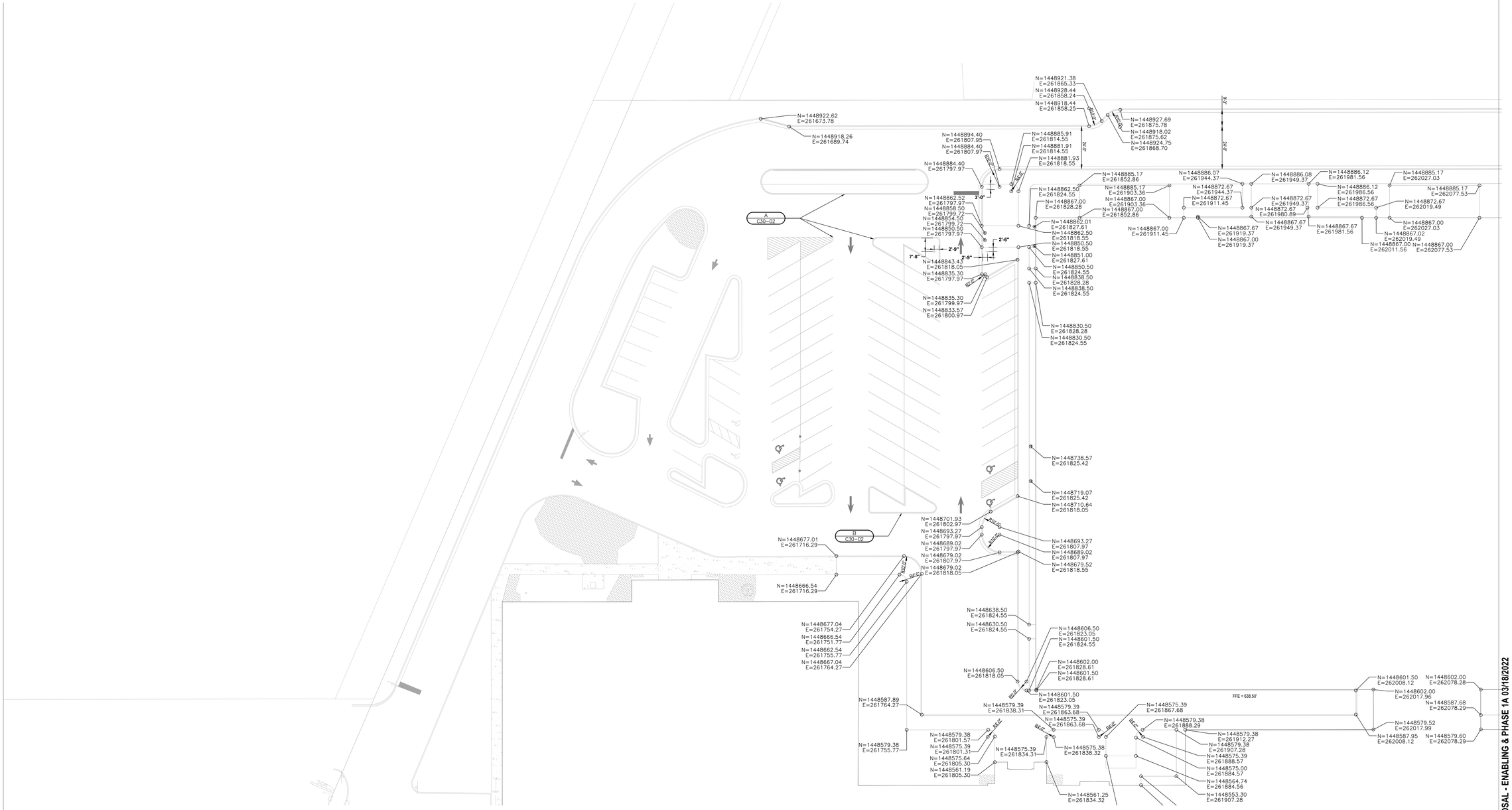
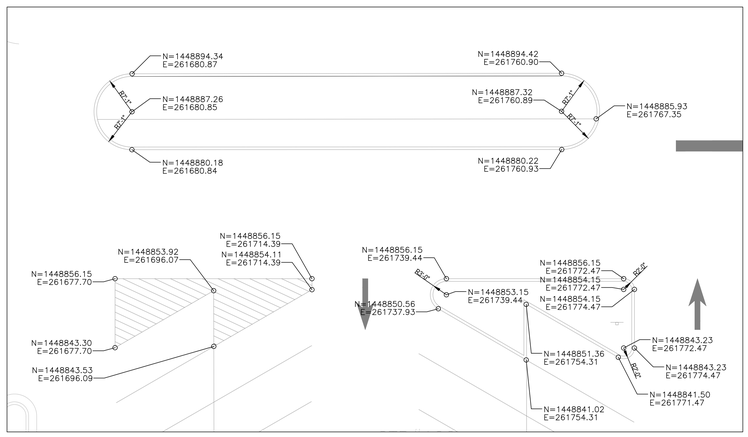
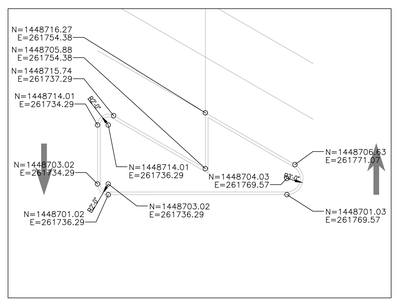



A C30-02 NORTH PARKING LOT ISLAND LAYOUT
1" = 10'




B C30-02 SOUTH PARKING LOT ISLAND LAYOUT
1" = 10'


**Perkins&Will**

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MEP
SSR, INC.
2995 SIDCO DR.
NASHVILLE, TN 37204

LANDSCAPING
MKSK
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INDIANAPOLIS, IN 46225

OWNER
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CONTRACTOR
TAYLOR BROS. CONSTRUCTION CO., INC.
4555 MIDDLE RD.
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ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

PROJECT

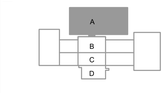
**NEXUSPARK**

columbusindiana
unexpected.unforgettable.

**City of Columbus**

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN




ISSUE CHART

0 20' 40'

| MARK | ISSUE | DATE |
|---|---|---|
| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |

Job Number 023650.000

TITLE

**SITE LAYOUT PLAN - WEST**

SHEET NUMBER

**C30-02**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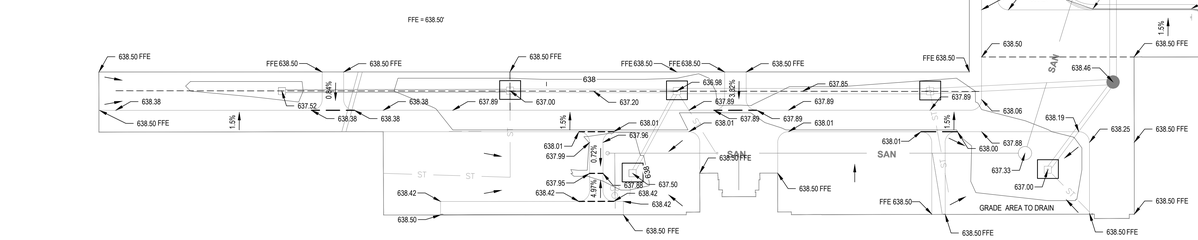
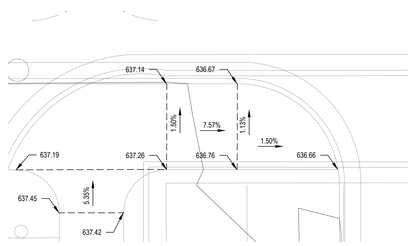
## EROSION CONTROL GENERAL NOTES:

1. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE "INDIANA STORMWATER QUALITY MANUAL AND THE SCS "FIELD OFFICE TECHNICAL GUIDE".
2. THE CITY ENGINEER HAS THE RIGHT TO REQUIRE ADDITIONAL MEASURES IN THE FIELD AS CONDITIONS WARRANT.

## LEGEND:

- TC TOP OF CURB
- BC BOTTOM OF CURB
- FC FLUSH CURB
- GRADE BREAK
- INLET PROTECTION (B & C / C50-05)
- TRACKING PAD FOR CONSTRUCTION ENTRANCE (D / C50-05)




A / C40-01 NORTH CURB RAMPS 1" = 10'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f 312.755.0775
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4555 MIDDLE RD.
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ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

PROJECT

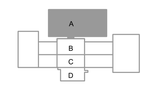
**NEXUSPARK**

columbusindiana
unexpected.unforgettable.

**City of Columbus**

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN




ISSUE CHART

0 20' 40'

| MARK | ISSUE | DATE |
|---|---|---|
| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |

Job Number 023650.000

TITLE

**SITE GRADING AND EROSION CONTROL PLAN - EAST**

SHEET NUMBER

**C40-01**

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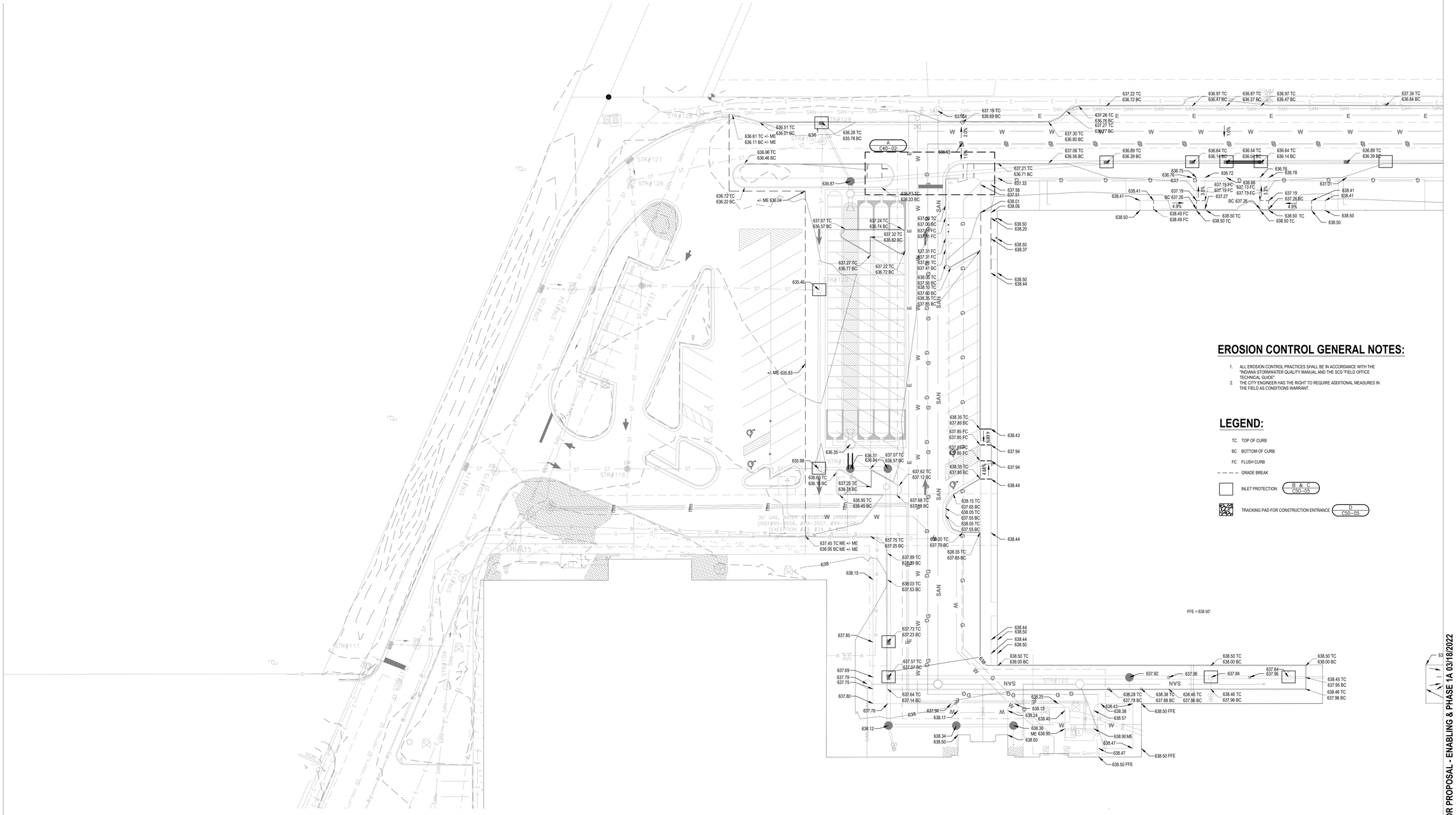


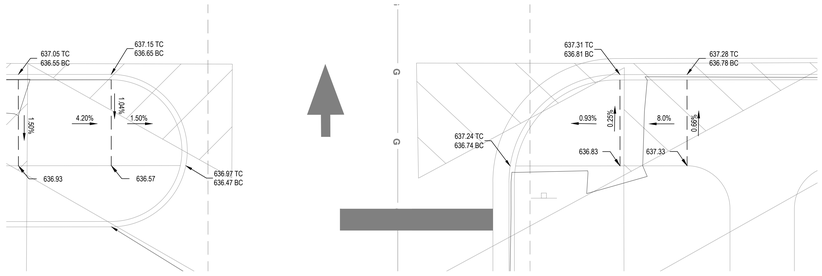





A
C40–02
NORTH CURB RAMPS
1" = 10'

## EROSION CONTROL GENERAL NOTES:

1. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE "INDIANA STORMWATER QUALITY MANUAL AND THE SCS "FIELD OFFICE TECHNICAL GUIDE".
2. THE CITY ENGINEER HAS THE RIGHT TO REQUIRE ADDITIONAL MEASURES IN THE FIELD AS CONDITIONS WARRANT.

## LEGEND:

TC TOP OF CURB
BC BOTTOM OF CURB
FC FLUSH CURB
GRADE BREAK
INLET PROTECTION — B & C / C50–05
TRACKING PAD FOR CONSTRUCTION ENTRANCE — D / C50–05


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PROJECT

**NEXUSPARK**

columbusindiana
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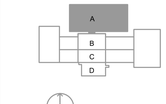
**City of Columbus**

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN




ISSUE CHART

0 20' 40'

| MARK | ISSUE | DATE |
|---|---|---|
| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |

Job Number 0236500.000

TITLE

**SITE GRADING AND EROSION CONTROL PLAN - WEST**

SHEET NUMBER

**C40-02**

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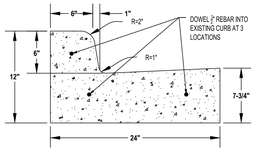
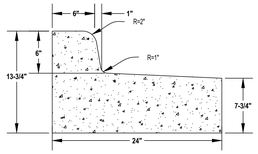
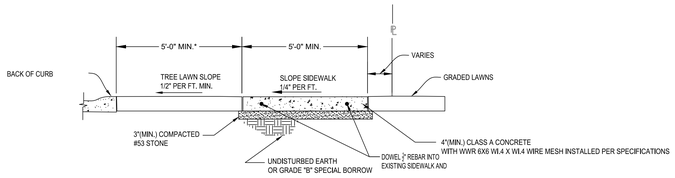
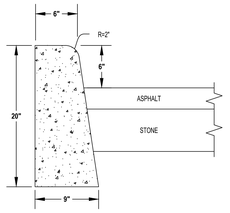



A C50-01 2' CONCRETE CURB AND GUTTER
NO SCALE



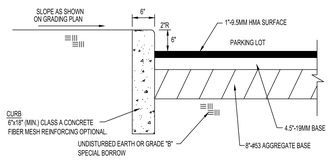

B C50-01 2' REJECT CONCRETE CURB AND GUTTER
NO SCALE



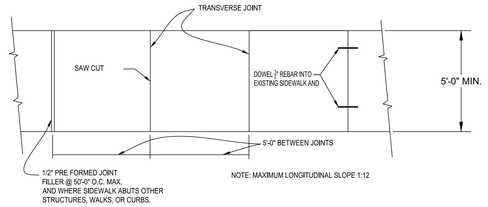




**NOTE: ALL CURB SHALL HAVE A MINIMUM OF 4" COMPACTED #53 STONE BASE.**

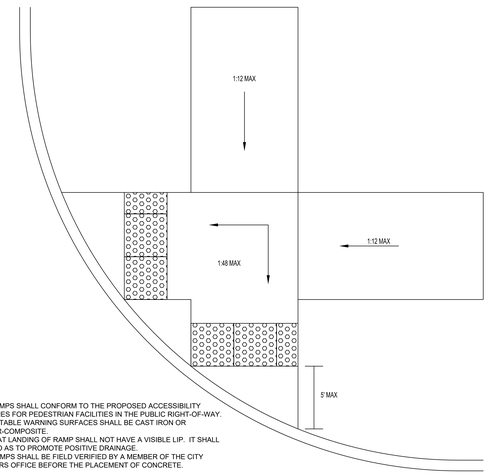
C C50-01 CONCRETE VERTICAL CURB
NO SCALE




D C50-01 TYPICAL PARKING LOT AND CURB SECTION – ASPHALT
NO SCALE

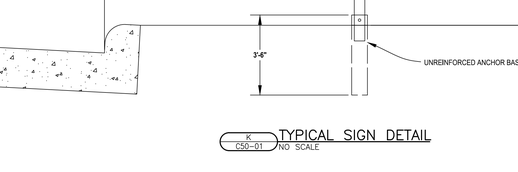



E C50-01 CONCRETE SIDEWALK
NO SCALE




1. ALL RAMPS SHALL CONFORM TO THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY.
2. DETECTABLE WARNING SURFACES SHALL BE CAST IRON OR POLYMER-COMPOSITE.
3. CURB AT LANDING OF RAMP SHALL NOT HAVE A VISIBLE LIP. IT SHALL SLANT SO AS TO PROMOTE POSITIVE DRAINAGE.
4. ALL RAMPS SHALL BE FIELD VERIFIED BY A MEMBER OF THE CITY ENGINEERS OFFICE BEFORE THE PLACEMENT OF CONCRETE.

F C50-01 2' ADA RAMP GENERAL DETAIL
NO SCALE











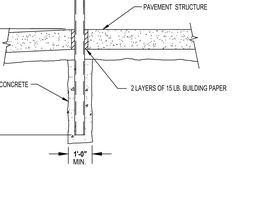


NOTE:
JOINT SEALING COMPOUND TO BE SEALTIGHT Hi-SPEC (W.R. MEADOWS, INC.) HOT-APPLIED, SINGLE COMPONENT, POLYMERIC JOINT SEALING COMPOUND (ASTM D 3405), OR APPROVED EQUAL.

G C50-01 NEW CONSTRUCTION – CONCRETE JOINT DETAILS
NO SCALE




H C50-01 TYPICAL ASPHALT PAVEMENT SECTION
NO SCALE




I C50-01 VEHICULAR PAVEMENT SECTION
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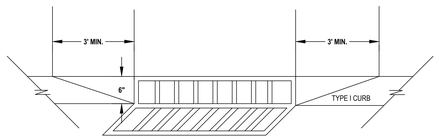
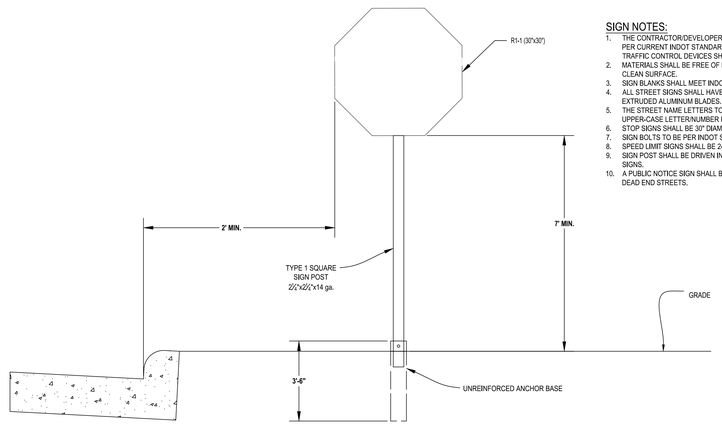
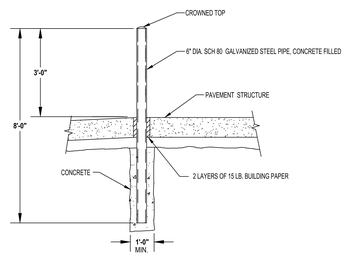



J C50-01 CURB TRANSITION DETAIL
NO SCALE




SIGN NOTES:
1. THE CONTRACTOR/DEVELOPER SHALL PROVIDE AND INSTALL ALL STREET NAME AND ROAD SIGNS PER CURRENT INDOT STANDARDS AND CITY OF COLUMBUS GUIDELINES AND DETAILS. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE CURRENT IMUTCD.
2. MATERIALS SHALL BE FREE OF BURRS, PITS, AND BLEMISHES AND SHALL PRESENT A SMOOTH CLEAN SURFACE.
3. SIGN BLANKS SHALL MEET INDOT SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
4. ALL STREET SIGNS SHALL HAVE GREEN BACKGROUND WITH WHITE LETTERS/NUMBERS ON EXTRUDED ALUMINUM BLADES.
5. THE STREET NAME LETTERS TO BE HIGH INTENSITY PRISMATIC: 9" BLADE WITH 6" INITIAL UPPER-CASE LETTER/NUMBER FOLLOWED BY 4.5" LOWER-CASE LETTERS.FONT IS TO BE SERIES B.
6. STOP SIGNS SHALL BE 30" DIAMOND GRADE OR HIGH INTENSITY PRISMATIC.
7. SIGN BOLTS TO BE PER INDOT STANDARD SPECIFICATIONS. BOLTS ARE TO BE THEFT PROOF.
8. SPEED LIMIT SIGNS SHALL BE 24" X 30" PRISMATIC HIGH INTENSITY.
9. SIGN POST SHALL BE DRIVEN INTO THE GROUND. NO EXCAVATION SHALL BE DONE TO PLACE SIGNS.
10. A PUBLIC NOTICE SIGN SHALL BE INSTALLED AND MAINTAINED AT THE END OF ALL TEMPORARY DEAD END STREETS.

K C50-01 TYPICAL SIGN DETAIL
NO SCALE




L C50-01 CONCRETE BOLLARD DETAIL
NO SCALE

## PAVEMENT CONSTRUCTION NOTES

1. INSTALLATION OF OR PROVISIONS FOR THE INSTALLATION OF ALL UNDERGROUND UTILITIES, INCLUDING SERVICE LATERALS, TO BE PLACED UNDER THE PAVEMENTS SHALL BE ESTABLISHED PRIOR TO THE CONSTRUCTION OF THE PAVEMENTS.
2. ALL PAVEMENT, CURBS, SIDEWALKS, RAMPS, ETC. SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND IN CLOSE CONFORMANCE WITH THE LINES, GRADES, THICKNESSES AND TYPICAL CROSS SECTIONS SHOWN ON THE PLANS. MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH DESIGNATED SECTIONS OF THE INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", LATEST EDITION.
3. SUBBASE AND SUB GRADE FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698.
4. ALL PORTLAND CEMENT CONCRETE PAVEMENT STREETS SHALL HAVE JOINT MAINTENANCE CONDUCTED BEFORE THE CITY ACCEPTS OWNERSHIP OF STREET (I.E. CRACK SEAL OR OTHER APPROVED MEASURE) WITHIN THE MAINTENANCE PERIOD.
5. WHEREVER RIGID PAVEMENT IS TO BE USED THE CONTRACTOR SHALL SUBMIT A DETAILED PAVING PLAN TO THE CITY ENGINEER. THE PAVING PLAN SHALL SHOW THE LOCATION AND TYPE OF JOINTING TO BE USED IN THE CONSTRUCTION. THE LOCATION AND TYPE OF JOINTING SHALL BE IN ACCORDANCE WITH THE CITY STANDARDS AND GUIDELINES.
6. WHENEVER SUB GRADE STABILIZATION IS TO BE USED THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN DETAILING THE APPLICATION METHOD. THE PLAN MUST COMPLY WITH THE STATE OF INDIANA ENVIRONMENTAL REGULATIONS AND STANDARDS AND BE APPROVED BY THE CITY ENGINEER'S OFFICE.
7. RECYCLED CONCRETE MAY BE USED AS # 53 AGG. BASE ON A CASE BY CASE BASIS UPON PRIOR WRITTEN APPROVAL OF THE CITY.
8. WHEREVER PROPRIETARY EQUIPMENT IS SPECIFIED, "OR APPROVED EQUAL" IS IMPLIED. ALL PROPOSALS FOR SUBSTITUTION SHALL BE SUBMITTED TO THE CITY IN WRITING FOR THEIR APPROVAL.

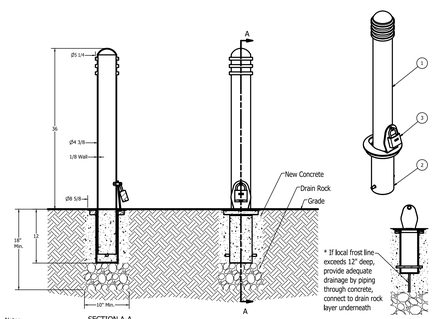
## QUALITY CONTROL REQUIREMENTS

1. ALL TESTING SHALL BE IN ACCORDANCE WITH THE LATEST INDOT STANDARD SPECIFICATIONS. ALL TESTS WHERE PRACTICABLE SHALL BE WITNESSED BY THE CITY. CONTRACTOR SHALL COORDINATE TESTING SCHEDULE WITH THE CITY ENGINEER'S OFFICE. ALL TEST RESULTS SHALL BE SUBMITTED TO THE CITY ENGINEER'S OFFICE WITHIN 48 HOURS OF THE COMPLETION OF EACH TEST AND PRIOR TO PLACING ANY MATERIAL ON THE SUBBASE/SUBGRADE. THE FREQUENCY OF TESTING WHERE SHOWN IS A MINIMUM. ADDITIONAL TESTING MAY BE REQUIRED AT THE DIRECTION OF THE PUBLIC WORKS INSPECTOR.
2. THE DEVELOPER/CONTRACTOR SHALL RETAIN AN INDEPENDENT TESTING FIRM (UNLESS OTHERWISE NOTED) TO PERFORM THE FOLLOWING TESTING:
   - A. SUBGRADE:
     1. COMPACTION (FILL SECTIONS): 1 TEST PER LIFT PER 500 LF OF SINGLE LANE WIDTH.
     2. ADEQUACY OF SUBGRADES SHALL BE DETERMINED SOLELY BY THE PUBLIC WORKS INSPECTOR. A PROOFROLL SHALL BE PERFORMED ON ALL STREET SUB GRADE PRIOR TO PLACING STONE AND INSTALLING CURB. SUBGRADE SHALL MEET INDOT SPECIFICATION SECTION 207, EXCEPT THAT ONLY THE TOP 8" OF SUBGRADE SHALL BE TESTED FOR 100% STANDARD COMPACTION. PROOFROLLING THAT COMPLIES WITH INDOT SPECIFICATION 203.26 IS ALSO REQUIRED, EXCEPT THAT PROOFROLLING MAY ALSO BE ACCOMPLISHED USING A FULLY LOADED TANDEM OR TRI-AXLE DUMP TRUCK IN LIEU OF THE SPECIFIED RUBBER TIRE ROLLER. ROLLER MARKS LESS THAN 1/4" ARE ACCEPTABLE, AS ARE DEFLECTIONS LESS THAN 1/2" OVER THE LENGTH OF THE ROLLER OR TRUCK. IF THE SUBGRADE DOES NOT PASS THESE SPECIFICATIONS, THEN SUBGRADE TREATMENTS, INCLUDING CHEMICAL MODIFICATION PERFORMED ACCORDING TO INDOT SPECIFICATIONS 207 AND 215 MAY BE DONE IN LIEU OF THE ABOVE DENSITY AND PROOFROLL SPECIFICATIONS.

     TANDEM DUMP TRUCK - GROSS WEIGHT 48,000 #
     TRI-AXLE DUMP TRUCK - GROSS WEIGHT 68,000 #
   - B. AGGREGATE SUBBASE:
     1. GRADUATION - 1 TEST PER 1000 TONS OR 1 PER WEEK
     2. COMPACTION - 1 TEST PER 500 LF OF SINGLE LANE WIDTH
   - C. BITUMINOUS MATERIAL (BASE, INTERMEDIATE AND SURFACE):
     1. ASPHALT EXTRACTION - 1 TEST PER EACH TYPE OF MATERIAL USED PER JOB TEST TO INCLUDE GRADATION, ASPHALT CONTENT, CRUSHED PARTICLE DETERMINATION AND DELETERIOUS DETERMINATION. TEST SHALL BE CERTIFIED PER INDOT CERTIFICATION REQUIREMENTS.
     2. DENSITY - THE TARGET DENSITY SHALL BE DETERMINED FROM A TEST STRIP CONSTRUCTED PER INDOT SPECIFICATIONS. THE TARGET DENSITY SHALL NOT BE LESS THAN 96% OF THE LIMIT WEIGHT AT THE OPTIMUM BINDER CONTENT NDES AS DETERMINED BY THE MIX DESIGN. THE DENSITY OF EACH SUBLOT WILL BE THE AVERAGE OF FIVE TESTS. A SUBLOT SHALL BE 1000 LF OF SINGLE LANE WIDTH. BREAKDOWN ROLLER SHALL BE MINIMUM 10 TON OR APPROVED VIBRATORY.
   - D. CONCRETE FOR CURBING AND DRIVEWAYS:
     1. AIR AND SLUMP - 1 TEST PER DAY FOR POURS OVER 20 CY OR MINIMUM 1 PER WEEK.
     2. COMPRESSIVE STRENGTH TESTS - AN ADEQUATE NUMBER OF CONCRETE TEST CYLINDERS SHOULD BE TAKEN TO ENSURE THAT PSI REQUIREMENTS OF THE CONCRETE SECTION ARE MET. A MINIMUM OF ONE SET OF TEST CYLINDERS PER WEEK SHALL PASS THESE REQUIREMENTS.
     3. CONCRETE STRENGTH SHALL BE A MINIMUM 4000 PSI BEFORE OPEN TO TRAFFIC.
   - E. CONCRETE FOR PAVEMENT - FREQUENCY OF TESTS SHALL BE IN ACCORDANCE WITH THE INDOT FREQUENCY TESTING MANUAL AS SET OUT IN THE SECTION TITLED "CONCRETE PAVEMENT AND STRUCTURE MATERIAL".

## GENERAL NOTES

1. ALL PAVEMENT, CURBS, SIDEWALKS, RAMPS, ETC. SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND IN CLOSE CONFORMANCE WITH THE LINES, GRADES, THICKNESSES AND TYPICAL CROSS SECTIONS SHOWN ON THE PLANS. MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH DESIGNATED SECTIONS OF THE INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", LATEST EDITION.
2. SUBBASE AND SUB GRADE FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698.
3. RECYCLED CONCRETE MAY BE USED AS # 53 AGG. BASE ON A CASE BY CASE BASIS UPON PRIOR WRITTEN APPROVAL OF THE CITY.
4. WHEREVER PROPRIETARY EQUIPMENT IS SPECIFIED, "OR APPROVED EQUAL" IS IMPLIED. ALL PROPOSALS FOR SUBSTITUTION SHALL BE SUBMITTED TO THE CITY IN WRITING FOR THEIR APPROVAL.
5. TESTING OF CONCRETE FOR CURBING AND DRIVEWAYS
   - 5.1. AIR AND SUMP - 1 TEST PER DAY FOR POURS OVER 20 CY OR MINIMUM 1 PER WEEK
   - 5.2. COMPRESSIVE STRENGTH TEST - AN ADEQUATE NUMBER OF CONCRETE TEST CYLINDERS SHOULD BE TAKEN TO ENSURE THAT PSI REQUIREMENTS OF THE CONCRTE SECTION ARE MET. A MINIMUM OF ON SET OF TEST PER WEEK SHALL PASS THESE REQUIREMENTS.
   - 5.3. CONCRETE STRENGTH SHALL BE A MINIMUM 4000 PSI BEFORE OPENING TO TRAFFIC.




Notes:
- Embedment details are for reference illustration only. Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
- Bollard post is provided as shown, with material detailed in legend below. Concrete, foundation and/or installation ordered separately or per local codes.
- This drawing is not drawn to scale. Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
- To be Reliance Foundry R7901 steel bollard or approved equal
- Contractor to install Bollard per Manufacturer's recommendations. Detail shown for reference only.

M C50-01 REMOVEABLE BOLLARD DETAIL
NO SCALE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2995 SIDCO DR.
NASHVILLE, TN 37204
MEP
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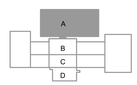
2995 SIDCO DR.
NASHVILLE, TN 37204
LANDSCAPING
MKSK
200 S MERIDIAN ST.
INDIANAPOLIS, IN 46225

OWNER
CITY OF COLUMBUS
123 WASHINGTON ST.
COLUMBUS, IN 47201
FACILITY
FAIR OAKS MALL
2380 25TH ST.
COLUMBUS, IN 47201
CONTRACTOR
TAYLOR BROS. CONSTRUCTION CO., INC.
4555 MIDDLE RD.
COLUMBUS, IN 47203


ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

PROJECT
NEXUSPARK

columbusindiana
unexpected.unforgettable.
City of Columbus
123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN



ISSUE CHART

| MARK | ISSUE | DATE |
|---|---|---|
| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |

Job Number 0236500.000
TITLE
SITE DETAILS

SHEET NUMBER
C50-01

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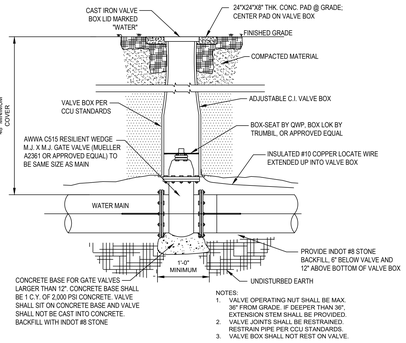
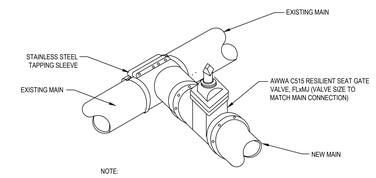
8/2/2021 11:24:23 AM BIM 360://Columbus - NexusPark/ARCH-Columbus-NexusPark.rvt



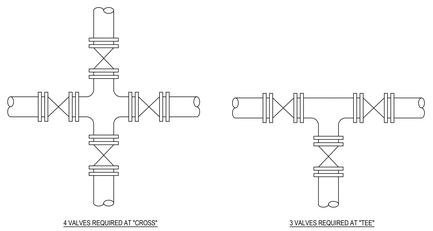

NOTES:
1. VALVE OPERATING NUT SHALL BE MAX. 36" FROM GRADE. IF DEEPER THAN 36", EXTENSION STEM SHALL BE PROVIDED.
2. VALVE JOINTS SHALL BE RESTRAINED. RESTRAIN PIPE PER CCU STANDARDS.
3. VALVE BOX SHALL NOT REST ON VALVE.

A C50-02 TYPICAL GATE VALVE AND VALVE BOX
NO SCALE




NOTE:
1. NO MECHANICAL JOINT TAPPING SLEEVES WILL BE ACCEPTED.
2. BOLTS, NUTS, & WASHERS SHALL BE 304 STAINLESS STEEL.
3. STAINLESS STEEL BOLTS SHALL BE INSTALLED WITH ANTI-SEIZE.
4. CONTRACTOR SHALL COMPLETE HYDROSTATIC TESTING ON TAPPING SLEEVE FOR A MINIMUM OF 15 MINUTES AT 150 PSI.

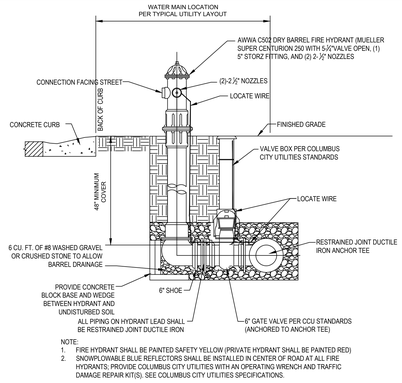
B C50-02 TAPPING SLEEVE AND VALVE
NO SCALE



4 VALVES REQUIRED AT "CROSS"

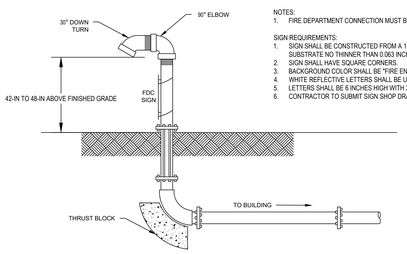
3 VALVES REQUIRED AT "TEE"

C C50-02 VALVES AT INTERSECTIONS
NO SCALE




NOTE:
1. FIRE HYDRANT SHALL BE PAINTED SAFETY YELLOW (PRIVATE HYDRANT SHALL BE PAINTED RED)
2. SNOWPLOWABLE BLUE REFLECTORS SHALL BE INSTALLED IN CENTER OF ROAD AT ALL FIRE HYDRANTS; PROVIDE COLUMBUS CITY UTILITIES WITH AN OPERATING WRENCH AND TRAFFIC DAMAGE REPAIR KIT(S). SEE COLUMBUS CITY UTILITIES SPECIFICATIONS.

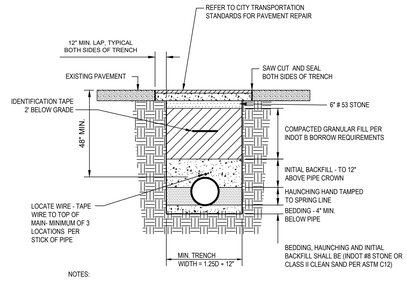
D C50-02 STANDARD FIRE HYDRANT
NO SCALE




NOTES:
1. FIRE DEPARTMENT CONNECTION MUST BE 5" STORZ FITTING

SIGN REQUIREMENTS:
1. SIGN SHALL BE CONSTRUCTED FROM A 15-IN HIGH BY 18" WIDE METAL SUBSTRATE NO THINNER THAN 0.063 INCHES.
2. SIGN SHALL HAVE SQUARE CORNERS.
3. BACKGROUND COLOR SHALL BE "FIRE ENGINE RED" NON-REFLECTIVE.
4. WHITE REFLECTIVE LETTERS SHALL BE USED.
5. LETTERS SHALL BE 6 INCHES HIGH WITH 3" BETWEEN EACH LETTER.
6. CONTRACTOR TO SUBMIT SIGN SHOP DRAWING FOR REVIEW.

E C50-02 FIRE DEPARTMENT CONNECTION RISER
NO SCALE




NOTES:
1. EXISTING PAVEMENT IS TO BE SAW CUT FOR A CLEAN BREAK.
2. TRENCH SPOIL IS TO BE REMOVED FROM THE WORK SITE.
3. NEW SURFACE TO BE SLOPED AT SAME RATE AS THE EXISTING SURFACE.
4. GRANULAR FILL SHALL BE PROVIDED WITHIN 5' OF PAVED SURFACE.

F C50-02 WATER MAIN TYPICAL TRENCH IN PAVED AREAS
NO SCALE

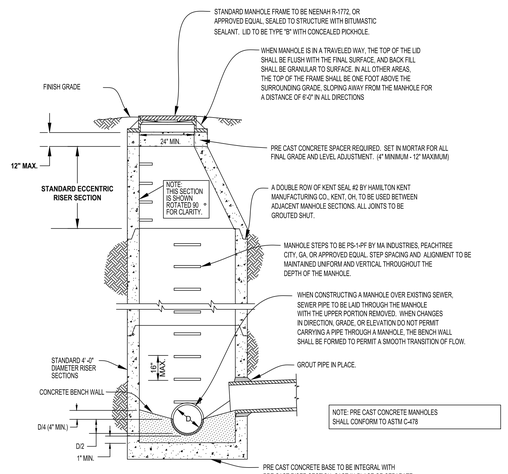
| LENGTH IN FT. TO BE REST. ON EACH SIDE OF FITTING FOR 4" DI PIPE W/ POLY WRAP | | | | | | | |
|---|---|---|---|---|---|---|---|
| TYPE OF BEND | 4" TEE | 90° BEND | 45° BEND | 22 1/2° BEND | 11 1/4° BEND | DEADENDS | |
| HORIZ. BEND | 56 | 20 | 10 | 10 | 10 | 65 | |
| VERT. BEND | | | 27 UPPER | 13 UPPER | 10 UPPER | | |
| | | | 10 LOWER | 10 LOWER | 10 LOWER | | |

| LENGTH IN FT. TO BE REST. ON EACH SIDE OF FITTING FOR 6" DI PIPE W/ POLY WRAP | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TYPE OF BEND | 4" TEE | 6" TEE | 90° BEND | 45° BEND | 22 1/2° BEND | 11 1/4° BEND | DEADENDS | |
| HORIZ. BEND | 52 | 82 | 29 | 12 | 10 | 10 | 91 | |
| VERT. BEND | | | | 38 UPPER | 19 UPPER | 10 UPPER | | |
| | | | | 10 LOWER | 10 LOWER | 10 LOWER | | |

| LENGTH IN FT. TO BE REST. ON EACH SIDE OF FITTING FOR 8" DI PIPE W/ POLY WRAP | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TYPE OF BEND | 4" TEE | 6" TEE | 8" TEE | 90° BEND | 45° BEND | 22 1/2° BEND | 11 1/4° BEND | DEADENDS | |
| HORIZ. BEND | 48 | 80 | 11 | 37 | 16 | 10 | 10 | 120 | |
| VERT. BEND | | | | | 50 UPPER | 24 UPPER | 12 UPPER | | |
| | | | | | 14 LOWER | 10 LOWER | 10 LOWER | | |

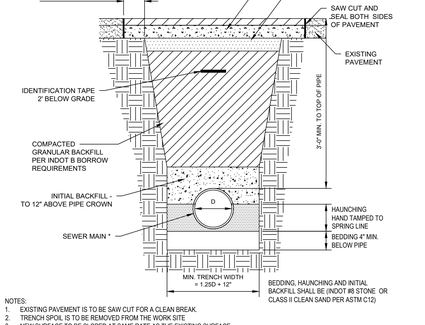
1. CONTRACTOR SHALL INSTALL RJDI FITTINGS FOR ALL VERTICAL AND HORIZONTAL BENDS.
2. RESTRAINED LENGTHS WERE CALCULATED USING EBAA IRON'S RESTRAINT LENGTH CALCULATOR (V7.1.2), ASSUMING 48" DEPTH OF BURY, A 2.0 FACTOR OF SAFETY, TYPE 3 TRENCH CONDITIONS, "CL" SOIL CLASSIFICATION, AND 150 PSI HYDROSTATIC TEST PRESSURES. DESIGNER AND CONTRACTOR SHALL VERIFY INSTALLATION CONDITIONS AND MODIFY RESTRAINT LENGTHS AS REQUIRED TO MEET ACTUAL CONDITIONS SUBJECT TO REVIEW BY COLUMBUS CITY UTILITIES.
3. ALL WATER MAIN APPURTENANCES AND JOINTS WITHIN RJDI LIMITS MUST BE RESTRAINED AT EACH JOINT.
4. AT A MINIMUM, THE NEXT JOINT EITHER WAY FROM A FITTING SHALL BE RESTRAINED.

G C50-02 DUCTILE IRON PIPE RESTRAINED JOINT TABLES
NO SCALE



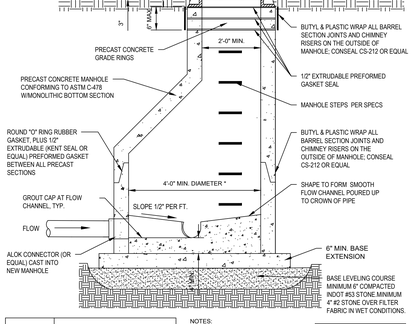

| MANHOLE SELECTION TABLE - CIRCULAR | | | | |
|---|---|---|---|---|
| TYPE | PIPE DIAMETER D | RISER DIAMETER A | MAXIMUM PIPE SIZE FOR MAIN LINE | MAXIMUM PIPE SIZE @ 90 TO MAIN LINE |
| STANDARD | UP TO 24" | 48" | 24" | 24" |
| H | 24'-36" | " | 36" | 30" |
| J | 24'-36" | 60" | 36" | 30" |
| K | 36"-48" | 72" | 48" | 36" |
| L | 48"-54" | 96" | 54" | 48" |
| M | 54"-72" | 102" | 72" | 66" |
| N | 72"-84" | 108" | 84" | 72" |

K C50-02 STORMWATER MANHOLE
NO SCALE




NOTES:
1. EXISTING PAVEMENT IS TO BE SAW CUT FOR A CLEAN BREAK.
2. TRENCH SPOIL IS TO BE REMOVED FROM THE WORK SITE
3. NEW SURFACE TO BE SLOPED AT SAME RATE AS THE EXISTING SURFACE.
4. GRANULAR FILL TO BE USED WITHIN 5' OF ALL PAVED AREAS.
5. EXISTING PAVEMENT SHALL BE BACKFILLED WITH FLOWABLE FILL.
6. OVER EXCAVATE FOR PIPE BELL.
7. FORCEMAIN TO BE INSTALLED PER THE TYPICAL TRENCH DETAILS FOR WATERMAINS

H C50-02 SANITARY GRAVITY SEWER TYPICAL TRENCH IN PAVED AREAS
NO SCALE

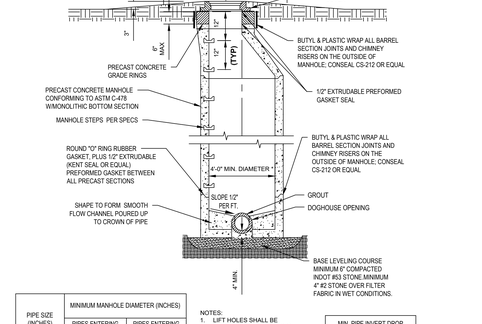



| PIPE SIZE (INCHES) | MINIMUM MANHOLE DIAMETER (INCHES) | |
|---|---|---|
| | PIPES ENTERING OR LEAVING AT UP TO 45° ANGLE | PIPES ENTERING OR LEAVING AT 46°-90° ANGLE |
| 18 OR LESS | 48 | 48 |
| LARGER THAN 18" | TO BE REVIEWED BY CCU | TO BE REVIEWED BY CCU |

NOTES:
1. LIFT HOLES SHALL BE PLUGGED AFTER SETTING MANHOLE.
2. THE INSIDE WALL DISTANCE BETWEEN OPENINGS SHALL BE A MIN. OF 6".
3. MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C1244.

| MIN. PIPE INVERT DROP THROUGH MANHOLE | |
|---|---|
| THROUGH DEFLECTION | MIN. DROP (FT.) |
| 0-45 | 0.10 |
| 45-90 | 0.20 |

I C50-02 SANITARY TYPE "A" STANDARD PRECAST MANHOLE
NO SCALE

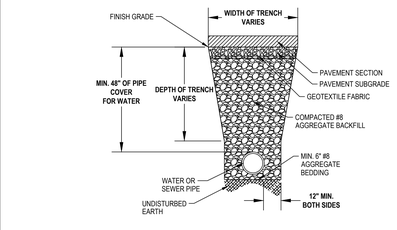



| PIPE SIZE (INCHES) | MINIMUM MANHOLE DIAMETER (INCHES) | |
|---|---|---|
| | PIPES ENTERING OR LEAVING AT UP TO 45° ANGLE | PIPES ENTERING OR LEAVING AT 46°-90° ANGLE |
| 18 OR LESS | 48 | 48 |
| LARGER THAN 18" | TO BE REVIEWED BY CCU | TO BE REVIEWED BY CCU |

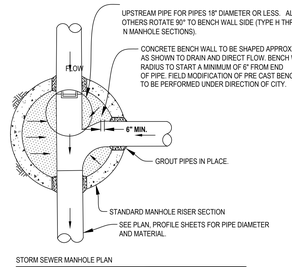
NOTES:
1. LIFT HOLES SHALL BE PLUGGED AFTER SETTING MANHOLE.
2. THE INSIDE WALL DISTANCE BETWEEN OPENINGS SHALL BE A MIN. OF 6".
3. MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C1244.

| MIN. PIPE INVERT DROP THROUGH MANHOLE | |
|---|---|
| THROUGH DEFLECTION | MIN. DROP (FT.) |
| 0-45 | 0.10 |
| 45-90 | 0.20 |

J C50-02 TYPE "D" STANDARD PRECAST DOGHOUSE MANHOLE
NO SCALE



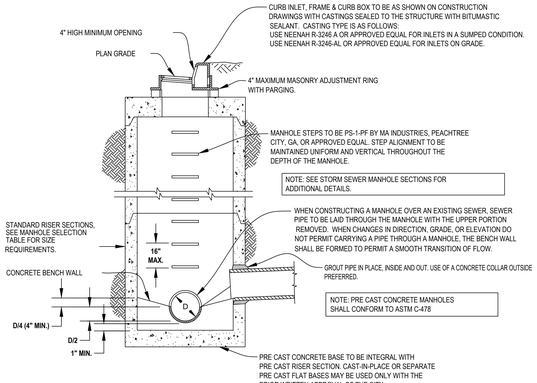

L C50-02 STORM SEWER TYPICAL TRENCH
NO SCALE




STORM SEWER MANHOLE PLAN

NOT TO SCALE

M C50-02 STORM SEWER MANHOLE PLAN
NO SCALE




N C50-02 MODIFIED MANHOLE WITH INLET
NO SCALE

### STORM SEWER NOTES

1. STORM SEWER PIPE AND APPURTENANCES SHALL CONFORM TO CITY OF COLUMBUS STORMWATER DESIGN MANUAL, AND CITY OF COLUMBUS ORDINANCE NO. 29-2008, "STORMWATER MANAGEMENT IN THE CITY OF COLUMBUS, INDIANA", FOR DESIGN AND MATERIALS.
2. CONSTRUCTION PROCEDURES AND MATERIALS SHALL COMPLY WITH APPLICABLE SECTIONS OF THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION
3. PIPE AND FITTINGS USED IN STORM SEWER CONSTRUCTION SHALL BE CONCRETE PIPE (ASTM C-76), PVC PIPE (4"-24" ONLY: ASTM 3034-SDR 35, ASTM F-679, OR ASTM F-794), HOBAS PIPE (24" AND LARGER ONLY: ASTM D262, D4161, D2412), FIBERGLASS SLEEVE COUPLINGS USING ELASTOMERIC SEALING GASKETS MADE OF EPDM COMPOUND PER ASTM D 4161, ADS N-12 (36") AND ADS N-12HC (42"-48" ONLY) DUAL WALL SINGLE MOLD HDPE PIPE WITH WATER TIGHT INTEGRAL BELL COUPLERS (AASHTO M-294, ASTM F-667). OTHER PIPE AND FITTINGS NOT SPECIFIED HEREIN MAY BE USED ONLY WHEN SPECIFICALLY AUTHORIZED IN WRITING BY THE CITY.
4. ALL STORM SEWERS SHALL BE HIGH-PRESSURE WATER JET CLEANED. MAINLINE STORM SEWERS (MANHOLE TO MANHOLE) SHALL BE TELEVISED. LATERAL STORM SEWERS (MANHOLE TO INLET, INLET TO INLET) IN EXCESS OF 40 FT. SHALL ALSO BE TELEVISED. MAINLINE STORM SEWERS AND LATERAL STORM SEWERS THAT ARE 36" DIAMETER OR LESS SHALL BE SUBJECTED TO A DEFLECTION TEST USING A GO-NO-GO MANDREL (95% DIAMETER) WHEN CONSTRUCTED USING FLEXIBLE PIPE CONDUIT MATERIALS. MAINLINE STORM SEWERS AND LATERAL STORM SEWERS THAT ARE GREATER THAN 36" DIAMETER REQUIRE THIRD PARTY TESTING AND CERTIFICATION (DIALY) OF THE BEDDING INSTALLATION WHEN CONSTRUCTED USING FLEXIBLE PIPE CONDUIT MATERIAL. CLEANING, TESTING, AND TELEVISING SHALL BE PERFORMED A MINIMUM OF 45 DAYS AFTER INSTALLATION, AND SHALL BE WITNESSED BY THE CITY. ALL COST OF CLEANING, TESTING, AND TELEVISING ARE TO BE BORNE BY THE CONTRACTOR. A COPY OF THE CCTV FILE DIGITAL FILE SHALL BE RETAINED BY THE CITY.
5. TRENCHES, WITHIN THE RIGHT OF WAY, UNDER PAVED AREAS (INCLUDING SIDEWALKS) SHALL BE BACK FILLED WITH FLOWABLE FILL PER INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS LATEST EDITION, SECTION 211 AND THE CITY STREET CUT DETAIL. FLOWABLE FILL TO EXTEND FIVE FEET BEYOND THE LIMITS OF PAVED AREA WITH A 1:1 SLOPE TO THE BOTTOM OF THE TRENCH.
6. CONFIGURATION OF INLETS IN PRIVATE PARKING OR DRIVING AREAS MAY BE VARIED TO ACCOMMODATE THE DIMENSIONS OF THE CASTINGS, PRIOR WRITTEN APPROVAL OF THE CITY IS REQUIRED.
7. 18" VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION TO BE MAINTAINED BETWEEN WATER MAINS, HYDRANTS, STORM SEWERS, AND SANITARY SEWERS.
8. SEWER PERMIT AND CITY INSPECTION REQUIRED FOR ALL CONNECTIONS TO STORM SEWER SYSTEMS. SEWER PERMIT REQUIRED ON SITE DURING ANY SEWER CONSTRUCTION.
9. ALL TAPS TO CONCRETE PIPE SHALL BE MADE WITH BOOT AND SADDLE CONNECTORS AND SHALL BE CORE DRILLED ONLY.
10. ALL INLETS SHALL BE DEPRESSED 0.1 FT. BELOW PLAN GRADE.
11. ALL SEWER LINES SHALL HAVE 0.1 FT. DROP THROUGH MANHOLES.
12. CASTINGS SHALL BE CENTERED ON OPENING IN STRUCTURES.
13. MINIMUM 4" OPENING REQUIRED ON BACK OF CURB INLET CASTING.
14. TOP OF MANHOLE FRAMES TO BE SET AT PROPOSED YARD OR SIDEWALK GRADE WHEN LOCATED IN FRONT AREA OF LOT OR RIGHT OF WAY.
15. BICYCLE SAFE GRATES REQUIRED IN PAVED AREAS EXCLUDING PAVED FLOW LINES IN SWALES OR DETENTION AREAS.
16. ANIMAL GUARDS SHALL BE PERMANENTLY INSTALLED ON ALL PIPE END SECTIONS 18" OR LARGER IN DIAMETER. GUARDS SHALL HAVE A MAXIMUM CLEAR OPENING OF 4" AND BE REMOVABLE.
17. IF ANY EXISTING FIELD TILE SYSTEMS ARE ENCOUNTERED DURING THE CONSTRUCTION PROCESS THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTING THE TITLE TO ITS ORIGINAL CONDITION OR CONNECT IT INTO THE PROPOSED STORM DRAIN SYSTEM.
18. WHENEVER PROPRIETARY EQUIPMENT IS SPECIFIED OR "APPROVED EQUAL" IS IMPLIED ALL PROPOSALS FOR SUBSTITUTIONS SHALL BE SUBMITTED TO THE CITY IN WRITING FOR THEIR APPROVAL.
19. ALL PIPE CONNECTIONS TO STRUCTURES OR OTHER PIPES SHALL BE INSPECTED BY THE CITY PRIOR TO BACKFILL PLACEMENT.

### TELEVISION INSPECTION CRITERIA

STORM SEWERS

SEWERS SHALL BE "FLOODED" BEFORE TELEVISION INSPECTION. THE IMAGE SHALL BE CLEAR ENOUGH TO ENABLE THE CITY REPRESENTATIVE AND OTHERS VIEWING THE MONITOR TO EASILY EVALUATE THE INTERIOR CONDITION OF THE PIPE.

ALL UNACCEPTABLE CONDITIONS FOUND DURING TELEVISION INSPECTION MUST BE CORRECTED BY THE CONTRACTOR AND RETELEVISED.

UNACCEPTABLE CONDITIONS THAT ADVERSELY EFFECT THE ABILITY OF THE SYSTEM TO FUNCTION AS DESIGNED OR TO BE PROPERLY MAINTAINED AND MAY INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING.
A. PROTRUDING TAPS
B. CRACKED OR FAULTY PIPE
C. MISALIGNED OR DEFORMED PIPE
D. DEBRIS IN LINE
E. INFILTRATION/EXFILTRATION
F. EXCESSIVE GAPS AT JOINTS
G. BELLIES OR SAGS WITH A DEPTH GREATER THAN OR EQUAL TO 10% (OR x MAXIMUM OF 3") OF PIPE DIAMETER AND/OR A LENGTH GREATER THAN 25 FEET

DETAILS AS TO REQUIRED CCTV EQUIPMENT AND REQUIRED TELEVISION INSPECTION REPORT ARE AVAILABLE FROM THE CITY ENGINEER'S OFFICE.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4555 MIDDLE RD.
COLUMBUS, IN 47203


ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

PROJECT

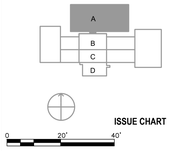
NEXUSPARK

columbusindiana
unexpected.unforgettable.

City of Columbus

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN




ISSUE CHART

0 20' 40'

| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |
|---|---|---|
| MARK | ISSUE | DATE |

Job Number 029050.000

TITLE

WATER AND SEWER UTILITY DETAILS

SHEET NUMBER

C50-02

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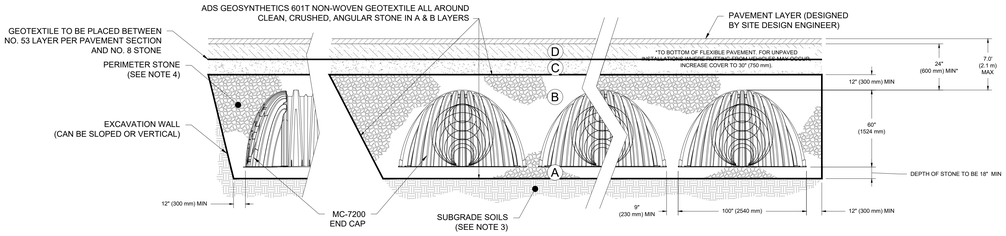
# ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS

| MATERIAL LOCATION | | DESCRIPTION | AASHTO MATERIAL CLASSIFICATIONS | COMPACTION / DENSITY REQUIREMENT |
|---|---|---|---|---|
| D | **FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER | NO. 53 STONE PER PAVEMENT SECTION SUBGRADE | N/A | PER DETAIL G C50-01 |
| C | **INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | CLEAN CRUSHED, ANGULAR STONE, NO. 8 | AASHTO M43[1] 3, 4 | BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. |
| B | **EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE. | CLEAN, CRUSHED, ANGULAR STONE, NO. 8 | AASHTO M43[1] 3, 4 | NO COMPACTION REQUIRED. |
| A | **FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. | CLEAN, CRUSHED, ANGULAR STONE, NO. 8 | AASHTO M43[1] 3, 4 | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3] |

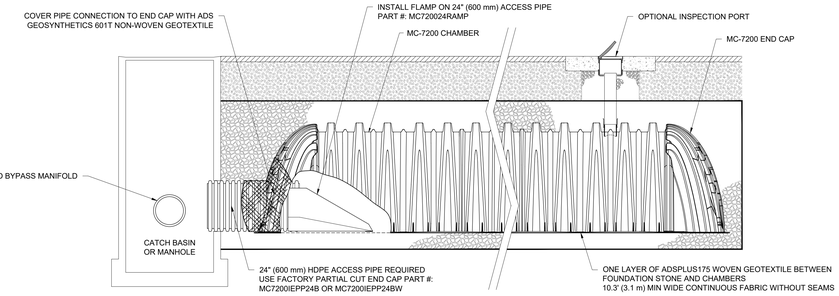
PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN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




## NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101
2. MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. 3,700 PSF BEARING CAPACITY WAS ASSUMED FOR THE CHAMBER AREAS, WHERE SOILS ARE DETERMINED TO BE UNSUITABLE AND DO NOT APPEAR TO SUPPORT THIS BEARING CAPACITY PER PROJECT SOILS ENGINEER SOILS ARE TO BE UNDERCUT AND BACKFILLED WITH STRUCTURAL STONE PER PROJECT SOIL ENGINEER AND MANUFACTURER'S RECOMMENDATIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

A C50-03 STORMTECH DETENTION FIELD ACCEPTABLE FILL MATERIALS
NO SCALE




**MC-7200 ISOLATOR ROW PLUS DETAIL**
NTS

B C50-03 STORMTECH DETENTION FIELD ISOLATOR ROW PLUS DETAIL
NO SCALE

### INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

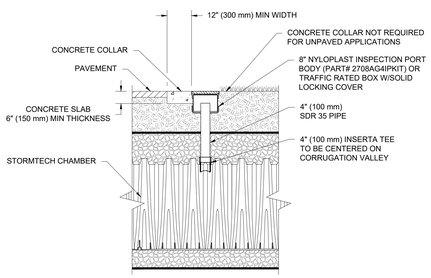
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

### NOTES

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



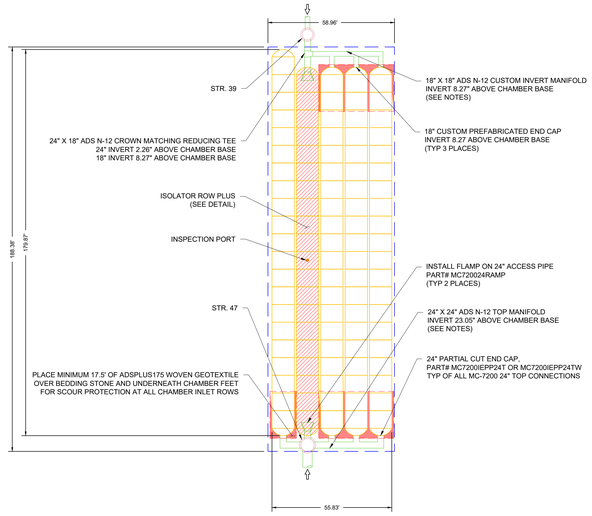

NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

**4" PVC INSPECTION PORT DETAIL**
**(MC SERIES CHAMBER)**
NTS

C C50-03 4" PVC INSPECTION PORT DETAIL
NO SCALE

| PROPOSED LAYOUT NORTHWEST SYSTEM | |
|---|---|
| 101 | STORMTECH MC-7200 CHAMBERS |
| 10 | STORMTECH MC-7200 END CAPS |
| 12 | STONE ABOVE (in) |
| 18 | STONE BELOW (in) |
| 40 | % STONE VOID |
| **32,221** | **INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)** |
| 7108 | SYSTEM AREA (ft²) |
| 396 | SYSTEM PERIMETER (ft) |

| PROPOSED ELEVATIONS NORTHWEST SYSTEM | |
|---|---|
| 638.50 | MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED) |
| 634.00 | MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC) |
| 633.50 | MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC) |
| 633.50 | MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT) |
| 633.50 | MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT) |
| 632.50 | TOP OF STONE |
| 631.50 | TOP OF MC-7200 CHAMBER |
| 628.42 | 24" TOP MANIFOLD INVERT |
| 625.44 | 18" CUSTOM MANIFOLD INVERT |
| 626.69 | 24" ISOLATOR ROW PLUS CONNECTION INVERT |
| 626.50 | BOTTOM OF MC-7200 CHAMBER |
| 625.00 | BOTTOM OF STONE |




D C50-03 STORMTECH DETENTION FIELD LAYOUT – WEST
NO SCALE

| PROPOSED LAYOUT NORTHEAST SYSTEM | |
|---|---|
| 109 | STORMTECH MC-7200 CHAMBERS |
| 10 | STORMTECH MC-7200 END CAPS |
| 12 | STONE ABOVE (in) |
| 18 | STONE BELOW (in) |
| 40 | % STONE VOID |
| **34,385** | **INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)** |
| 7548 | SYSTEM AREA (ft²) |
| 444 | SYSTEM PERIMETER (ft) |

| PROPOSED ELEVATIONS NORTHEAST SYSTEM | |
|---|---|
| 638.50 | MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED) |
| 634.00 | MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC) |
| 633.50 | MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC) |
| 633.50 | MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT) |
| 633.50 | MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT) |
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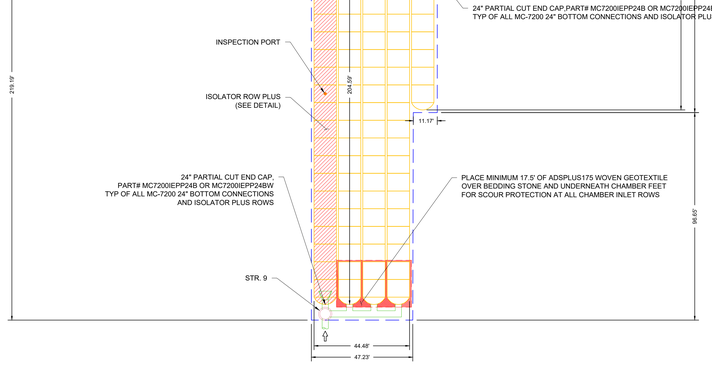
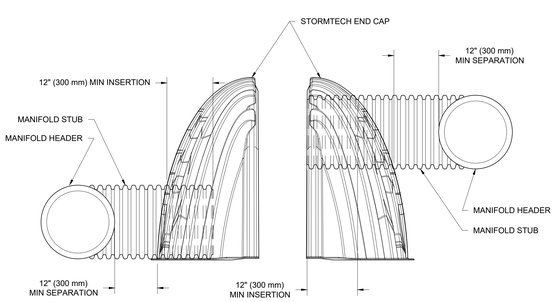
| 625.00 | BOTTOM OF STONE |




E C50-03 STORMTECH DETENTION FIELD LAYOUT – EAST
NO SCALE

**MC-SERIES END CAP INSERTION DETAIL**
NTS




NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

F C50-03 STORMTECH DETENTION FIELD END CAP INSERTION DETAIL
NO SCALE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4555 MIDDLE RD.
COLUMBUS, IN 47203

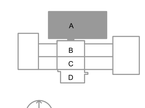
ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

columbusindiana
unexpected.unforgettable.

City of Columbus

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN




ISSUE CHART

0 20' 40'

| MARK | ISSUE | DATE |
|---|---|---|
| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |

Job Number 023650.000

PROJECT
NEXUSPARK

TITLE
STORMTECH CHAMBER DETAILS

SHEET NUMBER
C50-03

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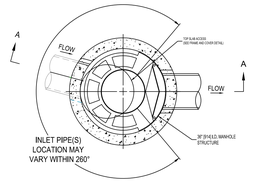
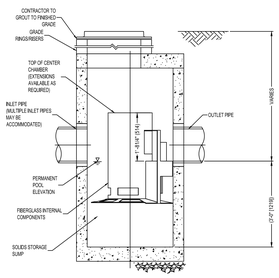


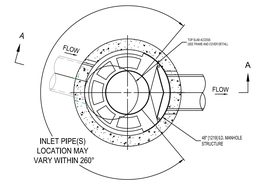

PLAN VIEW B-B
NOT TO SCALE



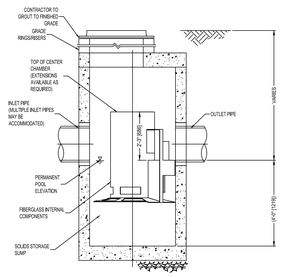

ELEVATION A-A
NOT TO SCALE

**FRAME AND COVER**
(DIAMETER VARIES)
NOT TO SCALE

A
C50-04
CASCADE – 3 SEPARATOR
NO SCALE



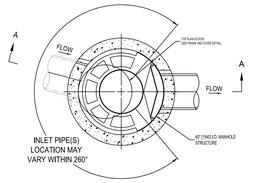

PLAN VIEW B-B
NOT TO SCALE



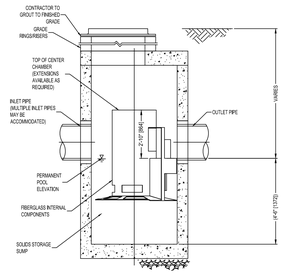

ELEVATION A-A
NOT TO SCALE

**FRAME AND COVER**
(DIAMETER VARIES)
NOT TO SCALE

B
C50-04
CASCADE – 4 SEPARATOR
NO SCALE




PLAN VIEW B-B
NOT TO SCALE




ELEVATION A-A
NOT TO SCALE

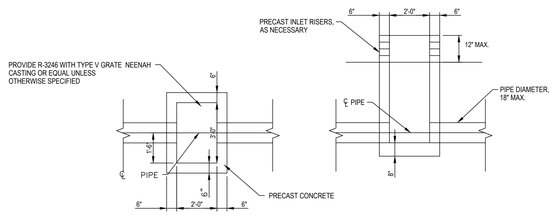
**FRAME AND COVER**
(DIAMETER VARIES)
NOT TO SCALE

C
C50-04
CASCADE – 5 SEPARATOR
NO SCALE

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm ].

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

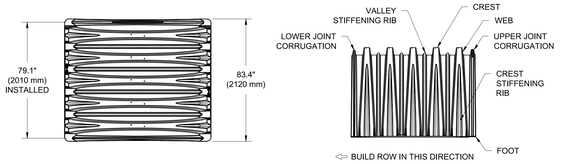
D
C50-04
CASCADE – SEPARATOR GENERAL NOTES
NO SCALE

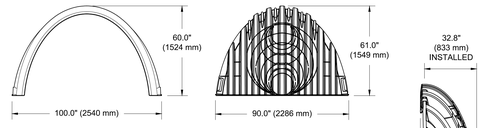



E
C50-04
STANDARD CURB INLET DETAIL
NO SCALE

## MC-7200 TECHNICAL SPECIFICATION

NTS




**NOMINAL CHAMBER SPECIFICATIONS**

| | | |
|---|---|---|
| SIZE (W X H X INSTALLED LENGTH) | 100.0" X 60.0" X 79.1" | (2540 mm X 1524 mm X 2010 mm) |
| CHAMBER STORAGE | 175.9 CUBIC FEET | (4.98 m³) |
| MINIMUM INSTALLED STORAGE* | 267.3 CUBIC FEET | (7.56 m³) |
| WEIGHT (NOMINAL) | 205 lbs. | (92.9 kg) |

**NOMINAL END CAP SPECIFICATIONS**

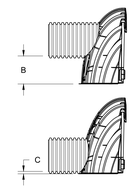
| | | |
|---|---|---|
| SIZE (W X H X INSTALLED LENGTH) | 90.0" X 61.0" X 32.8" | (2286 mm X 1549 mm X 833 mm) |
| END CAP STORAGE | 39.5 CUBIC FEET | (1.12 m³) |
| MINIMUM INSTALLED STORAGE* | 115.3 CUBIC FEET | (3.26 m³) |
| WEIGHT (NOMINAL) | 90 lbs. | (40.8 kg) |

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

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

| PART # | STUB | B | C |
|---|---|---|---|
| MC7200IEPP06T | 6" (150 mm) | 42.54" (1081 mm) | --- |
| MC7200IEPP06B | | --- | 0.86" (22 mm) |
| MC7200IEPP08T | 8" (200 mm) | 40.50" (1029 mm) | --- |
| MC7200IEPP08B | | --- | 1.01" (26 mm) |
| MC7200IEPP10T | 10" (250 mm) | 38.37" (975 mm) | --- |
| MC7200IEPP10B | | --- | 1.33" (34 mm) |
| MC7200IEPP12T | 12" (300 mm) | 35.69" (907 mm) | --- |
| MC7200IEPP12B | | --- | 1.55" (39 mm) |
| MC7200IEPP15T | 15" (375 mm) | 32.72" (831 mm) | --- |
| MC7200IEPP15B | | --- | 1.70" (43 mm) |
| MC7200IEPP18T | 18" (450 mm) | 29.36" (746 mm) | --- |
| MC7200IEPP18TW | | | |
| MC7200IEPP18B | | --- | 1.97" (50 mm) |
| MC7200IEPP18BW | | | |
| MC7200IEPP24T | 24" (600 mm) | 23.05" (585 mm) | --- |
| MC7200IEPP24TW | | | |
| MC7200IEPP24B | | --- | 2.26" (57 mm) |
| MC7200IEPP24BW | | | |
| MC7200IEPP30BW | 30" (750 mm) | --- | 2.95" (75 mm) |
| MC7200IEPP36BW | 36" (900 mm) | --- | 3.25" (83 mm) |
| MC7200IEPP42BW | 42" (1050 mm) | --- | 3.55" (90 mm) |

NOTE: ALL DIMENSIONS ARE NOMINAL




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

D
C50-04
STORMTECH DETENTION FIELD TECHNICAL SPECIFICATIONS
NO SCALE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4555 MIDDLE RD.
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ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

PROJECT

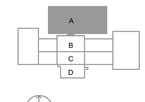
NEXUSPARK

columbusindiana
unexpected.unforgettable.

City of Columbus

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN




ISSUE CHART

0 20' 40'

| MARK | ISSUE | DATE |
|---|---|---|
| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |

Job Number 023650.000

TITLE

UTILITY DETAILS

SHEET NUMBER

C50-04

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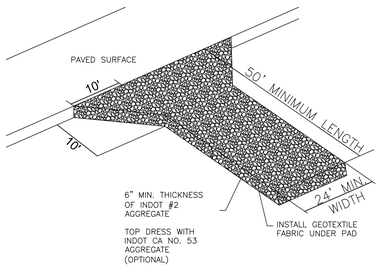
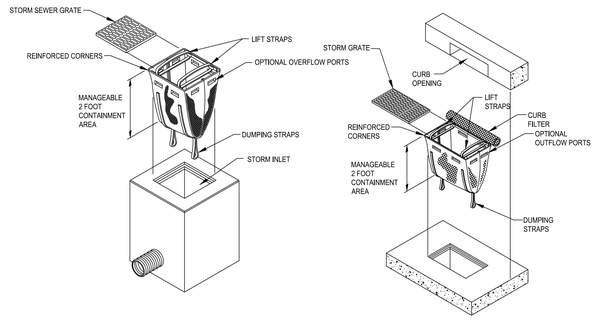



NOTE:

1. PROVIDE TRACKING PADS AT ENTRY POINTS TO THE NORTH AND SOUTH PARKING LOTS. CONTRACTOR SHALL AVOID LOCATING ON STEEP SLOPES OR AT CURVES IN PUBLIC ROADS
2. CONTRACTOR SHALL INSPECT PAD DAILY AND CLEAN OR REPLACE AS NEEDED TO PREVENT TRACKING
3. CONTRACTOR SHALL ADHERE TO THE PERTINENT REQUIREMENTS OF THE INDIANA STORMWATER QUALITY MANUAL, CHAPTER 7, "TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD (SMALL SITES–LESS THAN TWO ACRES)". THE WEB ADDRESS TO CHAPTER 7 OF THE INDIANA STORMWATER QUALITY MANUAL CAN BE FOUND AT THE BOTTOM OF THE SECTION.

A C50-05 TRACKING PAD FOR CONSTRUCTION ENTRANCE
NO SCALE

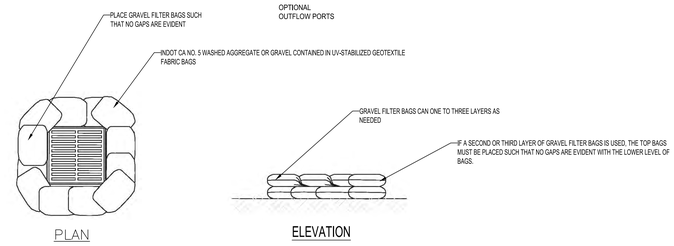



INSTALLATION - BASKET INLET PROTECTION

- REMOVE THE STORM SEWER GRATE AND PLACE THE FRAME INTO THE GRATE OPENING
- PLACE GEOTEXTILE FABRIC INTO THE FRAME AND SECURE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS
- REPLACE THE STORM SEWER GRATE

MAINTENANCE - BASKET INLET PROTECTION

- INSPECT DAILY
- REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE SURFACE AND VICINITY OF THE UNIT AFTER EACH STORM EVENT
- AFTER A STORM EVENT (½" OF RAINFALL) AND AT REGULAR INTERVALS, LOOK INTO THE DROP-IN BAG. IF CONTAINMENT AREA IS MORE THAN ¼ FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED
- TO EMPTY UNIT, LIFT THE UNIT USING THE LIFTING STRIPS AND REMOVE THE GRATE. DEPOSIT SEDIMENT IN AN AREA WHERE IT WILL NOT RE-ENTER THE PAVED AREA OR STORM DRAINS.
- IF USING OPTIONAL OIL ABSORBENTS, REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.
- WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE INLET PROTECTION.




INLET PROTECTION FOR INLETS IN DEPRESSED PARKING LOT AREAS

B C50-05 TEMPORARY INLET PROTECTION
NO SCALE




**NOTE:** THE USE OF A ROLL OFF DUMPSTER WITH A WATER TIGHT LINING OF 10 MILLIMETER POLYETHYLENE IS AN APPROVED ALTERNATIVE FOR A CONCRETE WASHOUT.

INSTALLATION

- A WASHOUT SYSTEM INSTALLED BELOW GRADE SHOULD BE A MINIMUM OF 10' WIDE BY 10' LONG, BUT SIZED TO CONTAIN ALL LIQUID WASTE THAT IS EXPECTED TO BE GENERATED BETWEEN SCHEDULED CLEANOUT PERIODS. THE SIZE OF THE PIT MAY BE LIMITED BY THE SIZE OF POLYETHYLENE AVAILABLE. THE POLYETHYLENE LINING SHOULD BE OF ADEQUATE SIZE TO EXTEND OVER THE ENTIRE EXCAVATION.
- INCLUDE A MINIMUM OF 12" FREEBOARD TO ENSURE THAT THE STRUCTURE WILL NOT OVERTOP DURING RAIN EVENTS.
- LINE THE PIT WITH 10 MILLIMETER POLYETHYLENE LINING TO CONTROL SEEPAGE.
- THE BOTTOM OF THE PIT SHOULD BE ABOVE THE SEASONAL HIGH WATER TABLE.

MAINTENANCE

- INSPECT DAILY
- INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE INCLUDING, WHERE APPLICABLE, THE CONTAINMENT SYSTEM.
- INSPECT THE SYSTEM FOR LEAKS, SPILLS, AND TRACKING OF SOIL BY EQUIPMENT
- INSPECT THE POLYETHYLENE LINING FOR FAILURE, INCLUDING TEARS AND PUNCTURES.
- ONCE CONCRETE WASTE HARDENS, REMOVE AND DISPOSE OF THE MATERIAL.
- EXCESS CONCRETE SHOULD BE REMOVED WHEN THE WASHOUT SYSTEM REACHES 50% OF THE DESIGN CAPACITY. USE OF THE SYSTEM SHOULD BE DISCONTINUED UNTIL APPROPRIATE MEASURES CAN BE INITIATED TO CLEAN THE STRUCTURE. PREFABRICATED SYSTEMS SHOULD ALSO UTI CRITERION. UNLESS THE MANUFACTURER HAS ALTERNATE SPECIFICATIONS.
- UPON REMOVAL OF THE SOLIDS, INSPECT THE STRUCTURE. REPAIR THE STRUCTURE AS NEEDED OR CONSTRUCT A NEW SYSTEM.
- DISPOSE OF ALL CONCRETE IN A LEGAL MANNER. RECYCLE OR HAUL THE MATERIAL TO AN APPROVED CONSTRUCTION/DEMOLITION LANDFILL SITE. RECYCLING OF MATERIAL IS ENCOURAGED.
- THE PLASTIC LINER SHOULD BE REPLACED AFTER EVERY CLEANING; THE REMOVAL OF MATERIAL WILL USUALLY DAMAGE THE LINING.
- THE CONCRETE WASHOUT SYSTEM SHOULD BE REPAIRED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE.
- CONCRETE WASHOUT SYSTEMS ARE DESIGNED TO PROMOTE EVAPORATION. HOWEVER, IF THE LIQUIDS DO NOT EVAPORATE AND THE SYSTEM IS NEAR CAPACITY IT MAY BE NECESSARY TO VACUUM OR REMOVE THE LIQUIDS AND DISPOSE OF THEM IN A ACCEPTABLE METHOD. DISPOSAL MA AT THE LOCAL SANITARY SEWER AUTHORITY PROVIDED THEIR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS ALLOW FOR ACCEPTANCE OF THIS MATERIAL. ANOTHER OPTION WOULD BE TO UTILIZE A SECONDARY CONTAINMENT SYSTEM OR BASIN FOR FURTHER DEWATE
- PREFABRICATED UNITS ARE OFTEN PUMPED AND THE COMPANY SUPPLYING THE UNIT PROVIDES THIS SERVICE.
- INSPECT CONSTRUCTION ACTIVITIES ON A REGULAR BASIS TO ENSURE SUPPLIERS, CONTRACTORS, AND OTHERS ARE UTILIZING DESIGNATED WASHOUT AREAS. IF CONCRETE WASTE IS BEING DISPOSED OF IMPROPERLY, IDENTIFY THE VIOLATORS AND TAKE APPROPRIATE ACTION.
- WHEN CONCRETE WASHOUT SYSTEMS ARE NO LONGER REQUIRED, THE CONCRETE WASHOUT SYSTEM SHALL BE CLOSED. DISPOSE OF ALL HARDENED CONCRETE AND OTHER MATERIALS USED TO CONSTRUCT THE SYSTEM.
- HOLES, DEPRESSIONS AND OTHER LAND DISTURBANCES ASSOCIATED WITH THE SYSTEM SHOULD BE BACKFILLED, GRADED, AND STABILIZED.

C C50-05 CONCRETE WASHOUT
NO SCALE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columbusindiana
unexpected.unforgettable.

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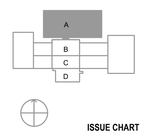


ISSUE CHART

| MARK | ISSUE | DATE |
|---|---|---|
| 1 | FOR PROPOSAL - ENABLING & PH. 1A | 3/18/2022 |

Job Number 023650.000

TITLE

**EROSION CONTROL DETAILS**

SHEET NUMBER

**C50-05**

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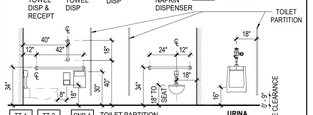
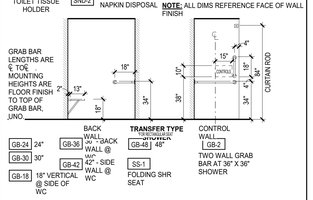
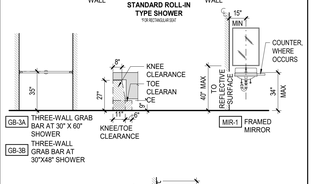
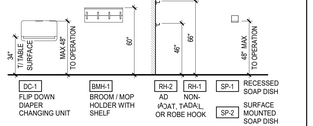
# MOUNTING DIMENSIONS

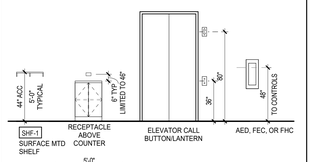
**MOUNTING INFORMATION SHOWN HERE IS COMPLIANT WITH REQUIREMENTS OF ICC A117.1-2009 AND 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN**

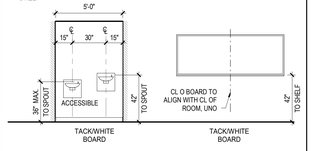


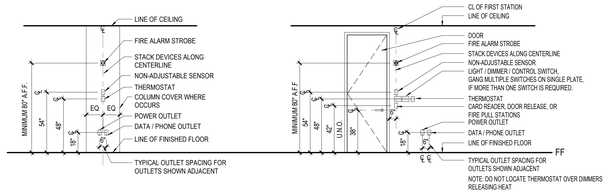



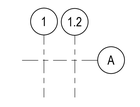




# ABBREVIATIONS

| | |
|---|---|
| ACT | ACOUSTICAL CEILING TILE |
| AFF | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT |
| ALT | ALTERNATE |
| ALUM | ALUMINUM |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECT(URAL), ARCHITECT |
| BLDG | BUILDING |
| CF/CI | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED |
| CF/OI | CONTRACTOR FURNISHED, OWNER INSTALLED |
| CFMF | COLD-FORMED METAL FRAMING |
| CG | CORNER GUARD |
| CIP | CAST-IN-PLACE |
| CJ | CONTROL JOINT |
| CL | CENTER LINE |
| CLG | CEILING |
| CLR | CLEAR |
| cm | CENTIMETER |
| CMU | CONCRETE MASONRY UNIT |
| COL | COLUMN |
| CONC | CONCRETE |
| COORD | COORDINATE |
| DBL | DOUBLE |
| DEG | DEGREE |
| DEMO | DEMOLISH, DEMOLITION |
| DIA | DIAMETER |
| DIM | DIMENSION |
| DISP | DISPENSER |
| DS | DOWNSPOUT |
| DWG | DRAWING |
| E | EAST |
| EA | EACH |
| EJ | EXPANSION JOINT |
| EL | ELEVATION |
| ELEC | ELECTRIC(AL) |
| ELEV | ELEVATOR |
| EOS | EDGE OF SLAB |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| EW | EACH WAY |
| EXIST | EXISTING |
| EXT | EXTERIOR |
| FD | FLOOR DRAIN |
| FDC | FIRE DEPARTMENT CONNECTION |
| FE | FIRE EXTINGUISHER |
| FEC | FIRE EXTINGUISHER CABINET |
| FF | FINISH FACE |
| FHC | FIRE HOSE CABINET |
| FIN | FINISH(ED) |
| FLR | FLOOR |
| FP | FIRE PROTECTION/ FIREPROOF |
| FRTW | FIRE RETARDANT TREATED WOOD |
| FT | FOOT (FEET) |
| FTG | FOOTING |
| FURN | FURNISH, FURNITURE |
| GA | GAGE |
| GALV | GALVANIZED |
| GFRC | GLASS FIBER REINFORCED CONCRETE |
| GFRG | GLASS FIBER REINFORCED GYPSUM |
| GL | GLASS |
| GLU LAM | GLUED LAMINATED WOOD |
| GYP BD | GYPSUM BOARD |
| GYP PLAS | GYPSUM PLASTER |
| H | HIGH |
| HM | HOLLOW METAL |
| HORIZ | HORIZONTAL |
| HP | HIGH POINT |
| HT | HEIGHT |
| HVAC | HEATING, VENTILATION, AIR CONDITIONING |
| ID | INSIDE DIAMETER |
| INSUL | INSULATION |
| INT | INTERIOR |
| L | LONG, LENGTH |
| LAM | LAMINATE(D) |
| LF | LINEAR FOOT, (FEET) |
| LP | LOW POINT |
| LVR | LOUVER |
| m | METER |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MEP | MECHANICAL, ELECTRICAL, PLUMBING |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| mm | MILLIMETER |
| MO | MASONRY OPENING |
| MTL | METAL |
| N | NORTH |
| NIC | NOT IN CONTRACT |
| NOM | NOMINAL |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OF/CI | OWNER FURNISHED, CONTRACTOR INSTALLED |
| OF/OI | OWNER FURNISHED, OWNER INSTALLED |
| OPH | OPPOSITE HAND |
| PCC | PRE-CAST CONCRETE |
| PERF | PERFORATED |
| PLAM | PLASTIC LAMINATE |
| PLBG | PLUMBING |
| PNT | PAINT |
| PREFAB | PREFABRICATE(D) |
| PROJ | PROJECT |
| PROP | PROPERTY |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| QTY | QUANTITY |
| R | RADIUS, RISER |
| RCP | REFLECTED CEILING PLAN |
| RD | ROOF DRAIN |
| REINF | REINFORCE, REINFORCING |
| REQ(D) | REQUIRE, REQUIRED |
| REV | REVISION |
| RM | ROOM |
| RO | ROUGH OPENING |
| S | SOUTH |
| SCHED | SCHEDULE |
| SECT | SECTION |
| SF | SQUARE FOOT(FEET) |
| SIM | SIMILAR |
| SPEC | SPECIFICATION |
| SST | STAINLESS STEEL |
| STC | SOUND TRANSMISSION CLASS |
| STD | STANDARD |
| STRUCT | STRUCTURAL |
| T | TREAD |
| T/ | TOP OF |
| T&G | TONGUE & GROOVE |
| TEMP | TEMPORARY |
| THK | THICK |
| TYP | TYPICAL |
| U | HEAT TRANSFER COEFFICIENT |
| UL | UNDERWRITER'S LABORATORIES |
| UNO | UNLESS NOTED OTHERWISE |
| VERT | VERTICAL |
| VIF | VERIFY IN FIELD |
| W | WEST |
| W/ | WITH |
| W/O | WITHOUT |
| WD | WOOD |
| WWF | WELDED WIRE FABRIC |
| WWM | WELDED WIRE MESH |
| X | BY |

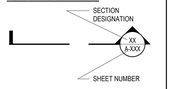
# SYMBOLS LEGEND

**COLUMN GRID DESIGNATION**

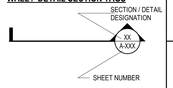



**NOTE TAGS**

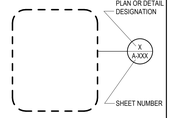
**BUILDING SECTION TAG**




**WALL / DETAIL SECTION TAGS**




**ENLARGED PLAN TAG**

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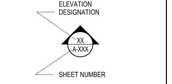


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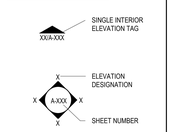
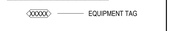


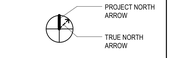

**DOOR IDENTIFICATION TAG**

**EQUIPMENT DESIGNATION**




**TOILET ACCESSORY TAG**

**NORTH ARROW**

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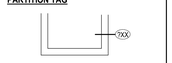
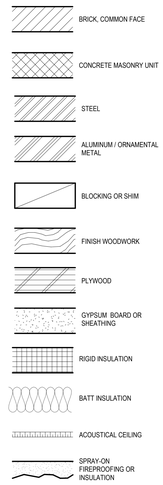



# GENERAL PROJECT NOTES

1. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
2. DO NOT SCALE THE DRAWING. IF DIMENSIONS ARE IN QUESTION OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING.
3. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF GYPSUM BOARD FOR PARTITIONS, TO CENTER LINE OF COLUMNS AND TO FACE OF CONCRETE OR MASONRY WALLS UNLESS OTHERWISE INDICATED. DIMENSIONS IN RENOVATED AREAS ARE FROM FINISH FACE OF EXISTING WALLS AND TO FINISH FACE OF NEW PARTITIONS UNLESS OTHERWISE INDICATED.
4. FIELD MEASURE AND CONFIRM DIMENSIONS FOR OWNER PROVIDED EQUIPMENT AND FURNISHINGS. COORDINATE WITH THE OWNER ON DELIVERY AND INSTALLATION OF OF/CI EQUIPMENT. MINIMUM REQUIRED OPENINGS AND ACCESSIBLE ROUTES TO THE INSTALLATION AREA SHALL BE COORDINATED WITH THE SUPPLIER.
5. FINISH FLOOR ELEVATIONS ARE TO TOP OF SCHEDULED FINISH UNLESS OTHERWISE NOTED.
6. WHERE NEW GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE NEW GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF THE EXISTING SURFACE. WHERE A ONE HOUR PARTITION IS SHOWN AS A CONTINUATION OF A TWO-HOUR PARTITION OR COLUMN ENCASEMENT, THE GYPSUM BOARD SHALL BE OFFSET FROM FRAMING AS REQUIRED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD ON BOTH SIDES.
7. LEVEL FLOORS SO THAT THEY DO NOT EXCEED A ¼" VARIANCE IN A 10'-0" RADIUS.
8. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A PARTITION ARE TO BE CONSISTENT FOR THE LENGTH AND HEIGHT OF A PARTITION.
9. FLOOR OUTLET LOCATIONS ARE TO BE APPROVED BY ARCHITECT AND BUILDING MANAGEMENT PRIOR TO CORE DRILLING.
10. OPENINGS IN A RATED WALL, FLOOR, CEILING AND ROOF ASSEMBLIES SHALL BE SEALED WITH A FIRE RESISTANT JOINT SYSTEMS OR PROTECTED WITH A FIRE RATED CHASE.
11. WHERE MATERIALS ARE APPLIED TO, OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.
12. ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.
13. COORDINATE LOCATION OF SEALANT AND COMPATIBILITY OF SEALANTS WITH ADJACENT WORK, INCLUDING MATERIALS AND OTHER CONTIGUOUS SEALANTS.
14. MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN FIRE RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
15. DO NOT HANG (SUPPORT) ANY ITEMS FROM METAL ROOF DECK. IT IS ACCEPTABLE TO ATTACH CEILING SYSTEM WIRE HANGERS FROM JOISTS OR BEAMS. IF NO JOIST OR BEAM IS AVAILABLE, PROVIDE SUPPLEMENTAL STEEL SUPPORTS

# MATERIALS AT LARGE SCALES





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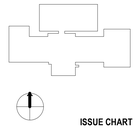
**KEYPLAN**



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**Job Number**

**TITLE**

**ARCHITECTURAL REFERENCE SHEET**

**SHEET NUMBER**

**A00-01**

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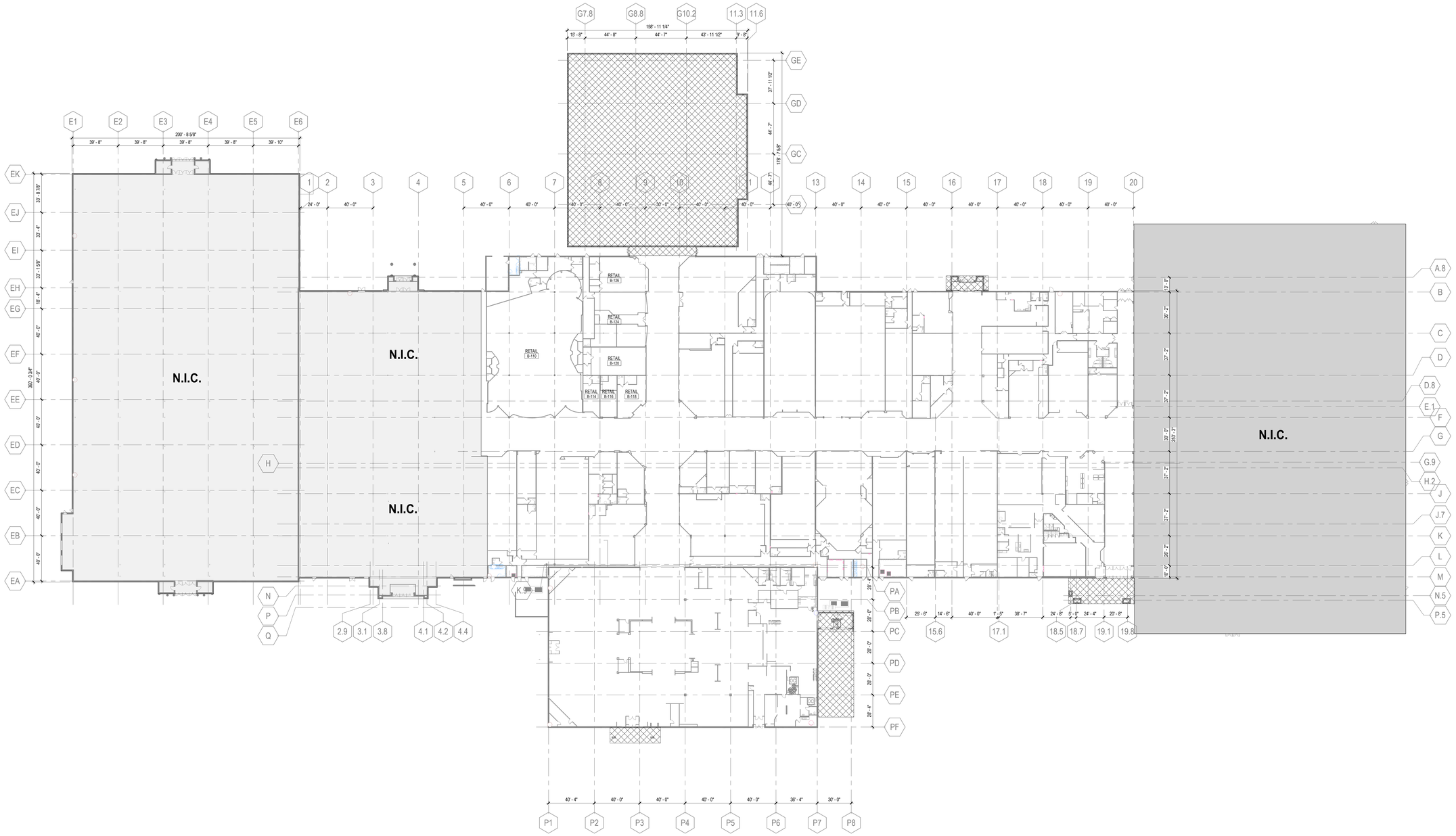


1 EXISTING PLAN - LEVEL 01 - OVERALL
1/32" = 1'-0"

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**EXISTING PLAN - LEVEL 01 - OVERALL**

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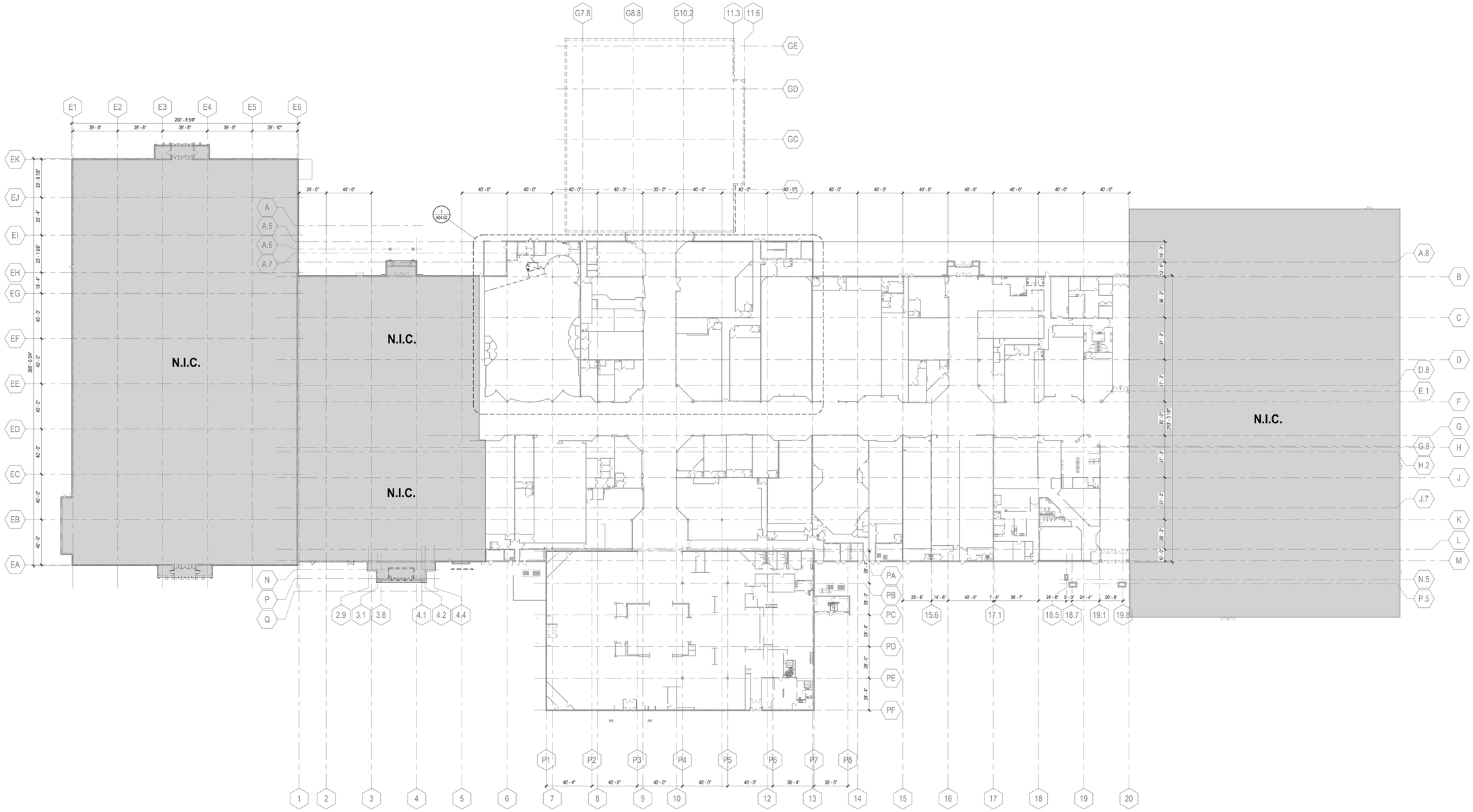


1 DEMOLITION PLAN - LEVEL 01 - OVERALL - ENABLING PHASE
1/32" = 1'-0"

## DEMOLITION PLAN KEYNOTES

## LEGEND

DENOTES AREA NOT IN CONTRACT

EXISTING DOOR AND FRAME TO REMAIN

EXISTING CONSTRUCTION TO REMAIN

EXISTING DOOR AND FRAME TO BE DEMOLISHED

EXISTING CONSTRUCTION TO BE DEMOLISHED

KEYNOTE

**EX** EXISTING TO REMAIN

**ED** EXISTING TO BE DEMOLISHED

**ER** EXISTING TO BE RELOCATED

## DEMOLITION PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD SURVEY THE SITE OF PROPOSED WORK TO DETERMINE THE EXTENT AND NATURE OF THE DEMOLITION WORK. REFER TO ALL CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND SCOPE OF DEMOLITION WORK. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

2. PROTECTION SHALL BE PROVIDED FOR BASE BUILDING CONSTRUCTION AND ALL EXISTING CONSTRUCTION TO REMAIN INCLUDING, BUT NOT LIMITED TO, FLOORING, PARTITIONS, WINDOW TREATMENTS, BASEBOARDS, CONVECTORS, DOORS, FRAMES, SOFFITS, FINISHES, ETC.

3. ALL WASTE MATERIALS OF ALL SUBCONTRACTORS SHALL BE REMOVED ON A DAILY BASIS, AND STRICT CONTROL SHALL BE EXERCISED OVER JOB CLEANING TO PREVENT ANY DIRT, DEBRIS OR DUST FROM AFFECTING ANY FINISHED AREAS WHETHER WITHIN OR OUTSIDE JOB SITE. BUILDING REFUSE FACILITIES SHALL NOT BE USED FOR THIS PURPOSE, UNLESS ARRANGEMENTS ARE MADE WITH LANDLORD DIRECTLY. DO NOT LET DEBRIS, RUBBISH, OR EXCESS CONSTRUCTION MATERIAL ACCUMULATE NOR OBSTRUCT EXITS AND EXIT PASSAGEWAYS.

4. THE CONTRACTOR SHALL REVIEW ALL EXISTING CONDUIT, WIRING, JUNCTION BOXES, ELECTRICAL COMMUNICATION, AND LIFE SAFETY DEVICES WITH THE LANDLORD AND OWNER PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK. ALL EXISTING ITEMS TO REMAIN SHALL BE PROPERLY MARKED AT THE PROJECT SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LANDLORD AND OWNER.

5. COORDINATE WITH OWNER TO VERIFY THAT OWNER HAS REMOVED ALL ITEMS SCHEDULED OR PLANNED TO BE REMOVED BY OWNER.

6. THE CONTRACTOR SHALL PREPARE AN INVENTORY OF EXISTING ITEMS TO BE REUSED, RELOCATED, AND/OR RETURNED TO THE LANDLORD OR OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND/OR LANDLORD TO DETERMINE ITEMS TO BE INVENTORIED, AND THE FORMAT OF THE INVENTORY PRIOR TO THE COMMENCEMENT OF WORK. CAREFULLY REMOVE AND NEATLY STORE AND PROTECT FROM DAMAGE ALL ITEMS IN THE CONTRACT DOCUMENTS TO BE REUSED AND OR RELOCATED AND LOCATION OF ON-SITE AND/OR OFF-SITE STORAGE.

7. ALL MATERIALS WHICH ARE NOT REQUIRED TO BE REUSED AND RELOCATED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL HAULING AND DISPOSAL OF DEBRIS IN ACCORDANCE WITH STATE LAWS AND LOCAL ORDINANCES.

8. REMOVE ALL CONSTRUCTION INDICATED IN THE DOCUMENTS AS EXISTING TO BE REMOVED, INCLUDING BUT NOT LIMITED TO, FLOOR AND CEILING, HANGERS, STRAPS AND MISCELLANEOUS APPURTENANCES RELATED TO THE ITEM BEING REMOVED.

9. WHERE PARTITIONS ARE BEING REMOVED, ALL ELECTRICAL OUTLETS AND SWITCHES SHALL BE DISCONNECTED AT SUPPLY JUNCTION BOXES, UNO.

10. WHERE PARTITIONS ARE BEING REMOVED, THERMOSTATS ARE TO BE REMOVED, STORED, AND RELOCATED AS INDICATED.

11. WHERE PLUMBING, WATER LINES, WASTES, AND VENTS ARE REMOVED, THEY SHALL BE DISCONNECTED AND CAPPED AT THE TAP CONNECTION; ADEQUATELY RECESS TO ACCOMMODATE PATCHING AND FINISH OF THE FINISH SURFACE.

12. WHERE EXISTING PARTITIONS ARE TO REMAIN, REMOVE EXISTING FINISH MATERIALS AND SURFACE MOUNTED ELEMENTS WHERE INDICATED.

13. WHERE TACKLESS CARPET AND/OR PAD ARE BEING REMOVED, REMOVE MECHANICAL ATTACHMENTS TO THE FLOOR.

14. WHERE GLUE DOWN CARPET, RESILIENT FLOORING OR OTHER GLUED FLOOR INSTALLATIONS ARE TO BE REMOVED, REMOVE ALL ADHESIVE TO LEAVE THE FLOOR WITH A SMOOTH, FINISH.

15. REMOVE ALL LOW VOLTAGE CABLING AND CONNECTORS THAT ARE NOT REQUIRED FOR THE OPERATION OF THE FINAL LOW VOLTAGE SYSTEM.

16. ALL EMPTY CONDUITS TO BE REMOVED.

17. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED AT NO COST TO OWNER OR ARCHITECT. IMMEDIATELY REPAIR ANY DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS.

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**DEMOLITION PLAN - LEVEL 01 - OVERALL - ENABLING PHASE**

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**A04-00**

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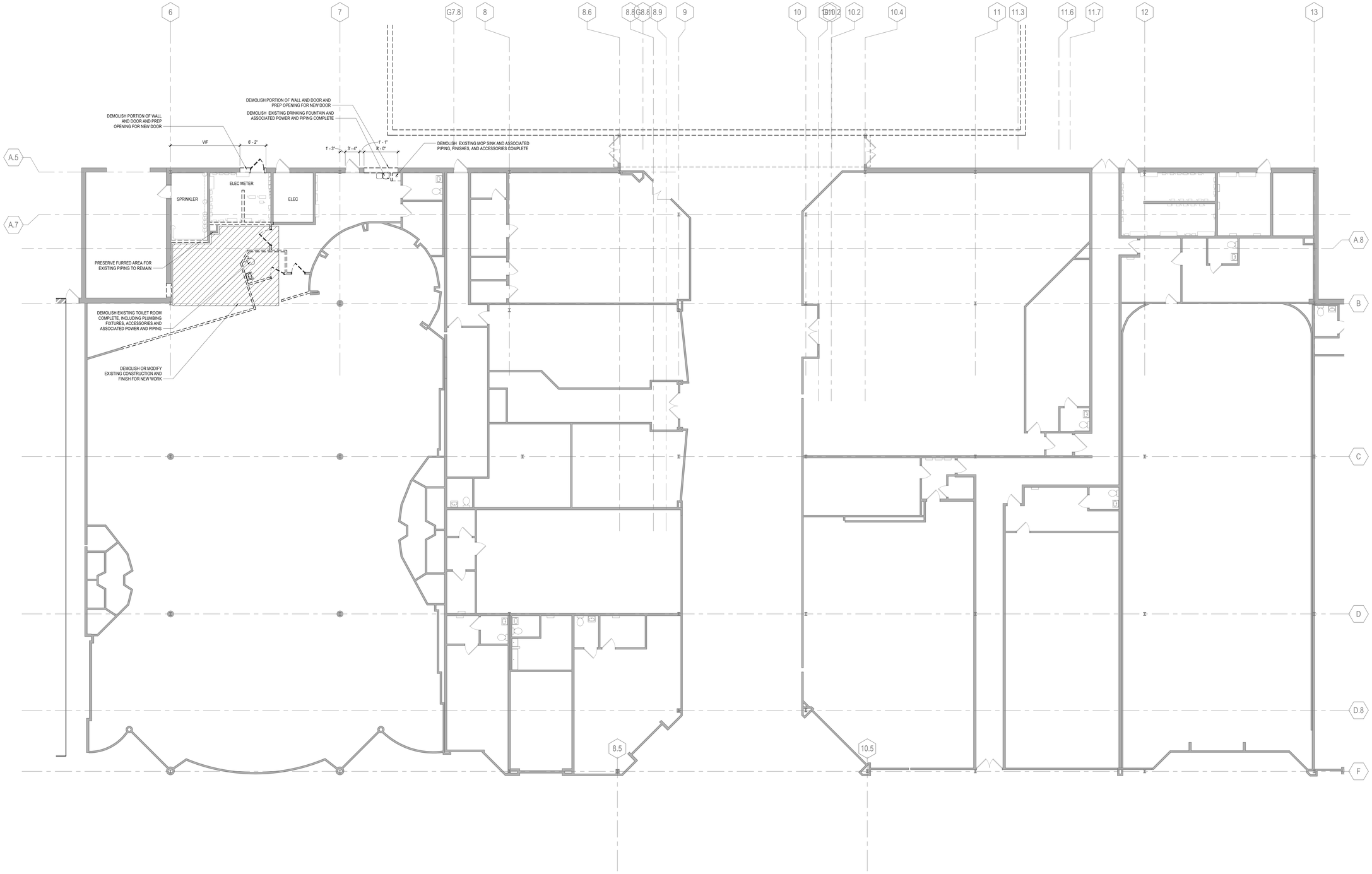


1 DEMOLITION PLAN - LEVEL 01 - AREA B - ENABLING PHASE
1/8" = 1'-0"

## DEMOLITION PLAN KEYNOTES

## LEGEND

DENOTES AREA NOT IN CONTRACT

EXISTING DOOR AND FRAME TO REMAIN

EXISTING CONSTRUCTION TO REMAIN

EXISTING DOOR AND FRAME TO BE DEMOLISHED

EXISTING CONSTRUCTION TO BE DEMOLISHED

1 KEYNOTE

**EX** EXISTING TO REMAIN

**ED** EXISTING TO BE DEMOLISHED

**ER** EXISTING TO BE RELOCATED

## DEMOLITION PLAN GENERAL NOTES

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3. ALL WASTE MATERIALS OF ALL SUBCONTRACTORS SHALL BE REMOVED ON A DAILY BASIS, AND STRICT CONTROL SHALL BE EXERCISED OVER JOB CLEANING TO PREVENT ANY DIRT, DEBRIS OR DUST FROM AFFECTING ANY FINISHED AREAS WHETHER WITHIN OR OUTSIDE JOB SITE. BUILDING REFUSE FACILITIES SHALL NOT BE USED FOR THIS PURPOSE, UNLESS ARRANGEMENTS ARE MADE WITH LANDLORD DIRECTLY. DO NOT LET DEBRIS, RUBBISH, OR EXCESS CONSTRUCTION MATERIAL ACCUMULATE NOR OBSTRUCT EXITS AND EXIT PASSAGEWAYS.

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8. REMOVE ALL CONSTRUCTION INDICATED IN THE DOCUMENTS AS EXISTING TO BE REMOVED, INCLUDING, BUT NOT LIMITED TO, FLOOR AND CEILING, HANGERS, STRAPS AND MISCELLANEOUS APPURTENANCES RELATED TO THE ITEMS BEING REMOVED.

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16. ALL EMPTY CONDUITS TO BE REMOVED.

17. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED AT NO COST TO OWNER OR ARCHITECT. IMMEDIATELY REPAIR ANY DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS.

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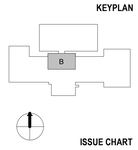


ISSUE CHART

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Job Number

TITLE

**DEMOLITION PLAN - LEVEL 01 - AREA B - ENABLING PHASE**

SHEET NUMBER

**A04-02**

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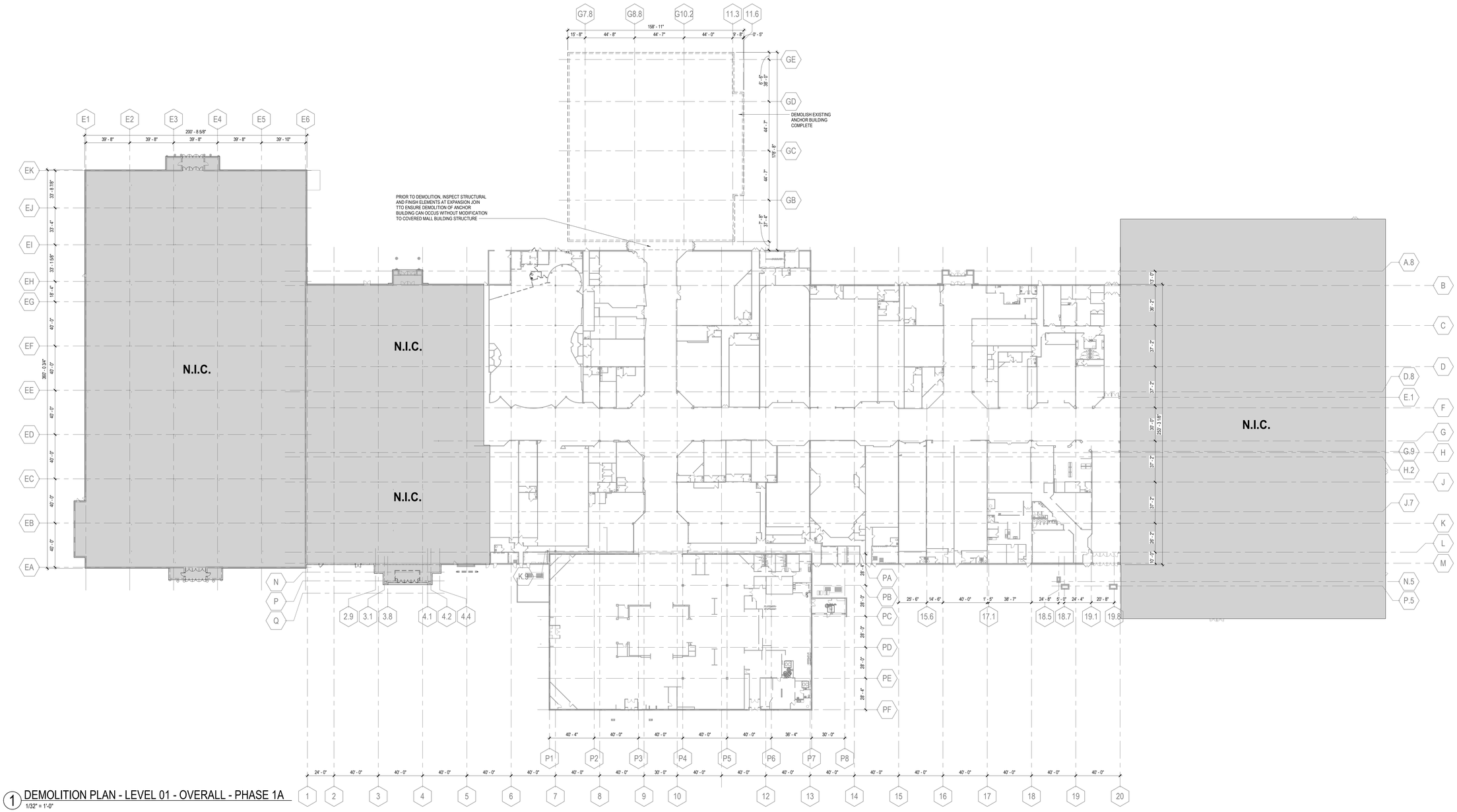


## 1 DEMOLITION PLAN - LEVEL 01 - OVERALL - PHASE 1A

1/32" = 1'-0"

## 1 DEMOLITION PLAN KEYNOTES

## LEGEND

DENOTES AREA NOT IN CONTRACT

EXISTING DOOR AND FRAME TO REMAIN

EXISTING CONSTRUCTION TO REMAIN

EXISTING DOOR AND FRAME TO BE DEMOLISHED

EXISTING CONSTRUCTION TO BE DEMOLISHED

KEYNOTE

**EX** EXISTING TO REMAIN

**ED** EXISTING TO BE DEMOLISHED

**ER** EXISTING TO BE RELOCATED

## DEMOLITION PLAN GENERAL NOTES

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3. ALL WASTE MATERIALS OF ALL SUBCONTRACTORS SHALL BE REMOVED ON A DAILY BASIS, AND STRICT CONTROL SHALL BE EXERCISED OVER JOB CLEANING TO PREVENT ANY DIRT, DEBRIS OR DUST FROM AFFECTING ANY FINISHED AREAS WHETHER WITHIN OR OUTSIDE JOB SITE. BUILDING REFUSE FACILITIES SHALL NOT BE USED FOR THIS PURPOSE, UNLESS ARRANGEMENTS ARE MADE WITH LANDLORD DIRECTLY. DO NOT LET DEBRIS, RUBBISH, OR EXCESS CONSTRUCTION MATERIAL ACCUMULATE NOR OBSTRUCT EXITS AND EXIT PASSAGEWAYS.

4. THE CONTRACTOR SHALL REVIEW ALL EXISTING CONDUIT, WIRING, JUNCTION BOXES, ELECTRICAL COMMUNICATION, AND LIFE SAFETY DEVICES WITH THE LANDLORD AND OWNER PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK. ALL EXISTING ITEMS TO REMAIN SHALL BE PROPERLY MARKED AT THE PROJECT SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LANDLORD AND OWNER.

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**ISSUE CHART**

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**Job Number**

**TITLE**

**DEMOLITION PLAN - LEVEL 01 - OVERALL - PHASE 1A**

**SHEET NUMBER**

**A04-10**

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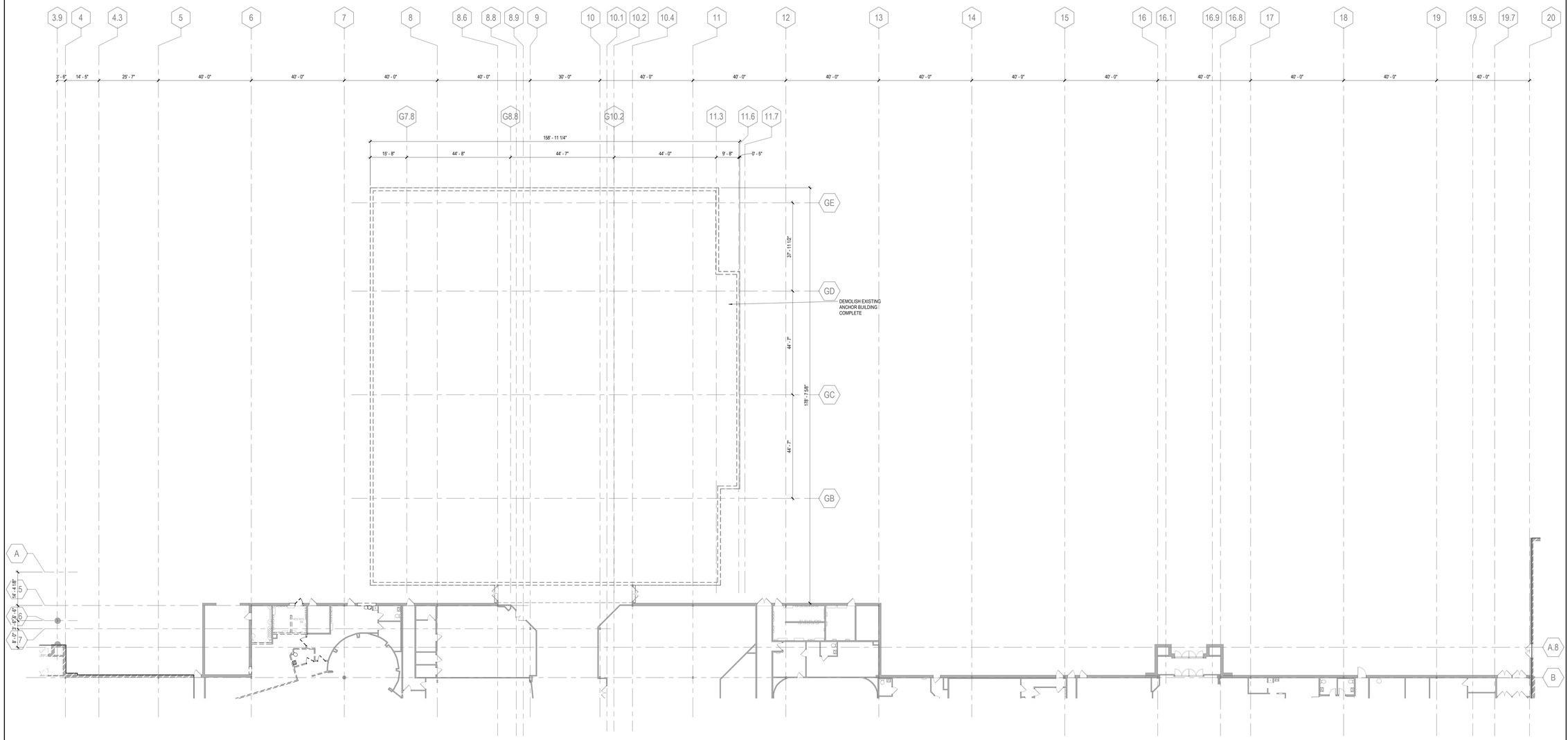


## 1 DEMOLITION PLAN - LEVEL 01 - AREA A - PHASE 1A

1/16" = 1'-0"

### DEMOLITION PLAN KEYNOTES

### LEGEND

- DENOTES AREA NOT IN CONTRACT
- EXISTING DOOR AND FRAME TO REMAIN
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING DOOR AND FRAME TO BE DEMOLISHED
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- 1 KEYNOTE
- **EX** EXISTING TO REMAIN
- **ED** EXISTING TO BE DEMOLISHED
- **ER** EXISTING TO BE RELOCATED

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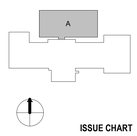


**ISSUE CHART**

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Job Number

**TITLE**

**DEMOLITION PLAN - LEVEL 01 - AREA A - PHASE 1A**

**SHEET NUMBER**

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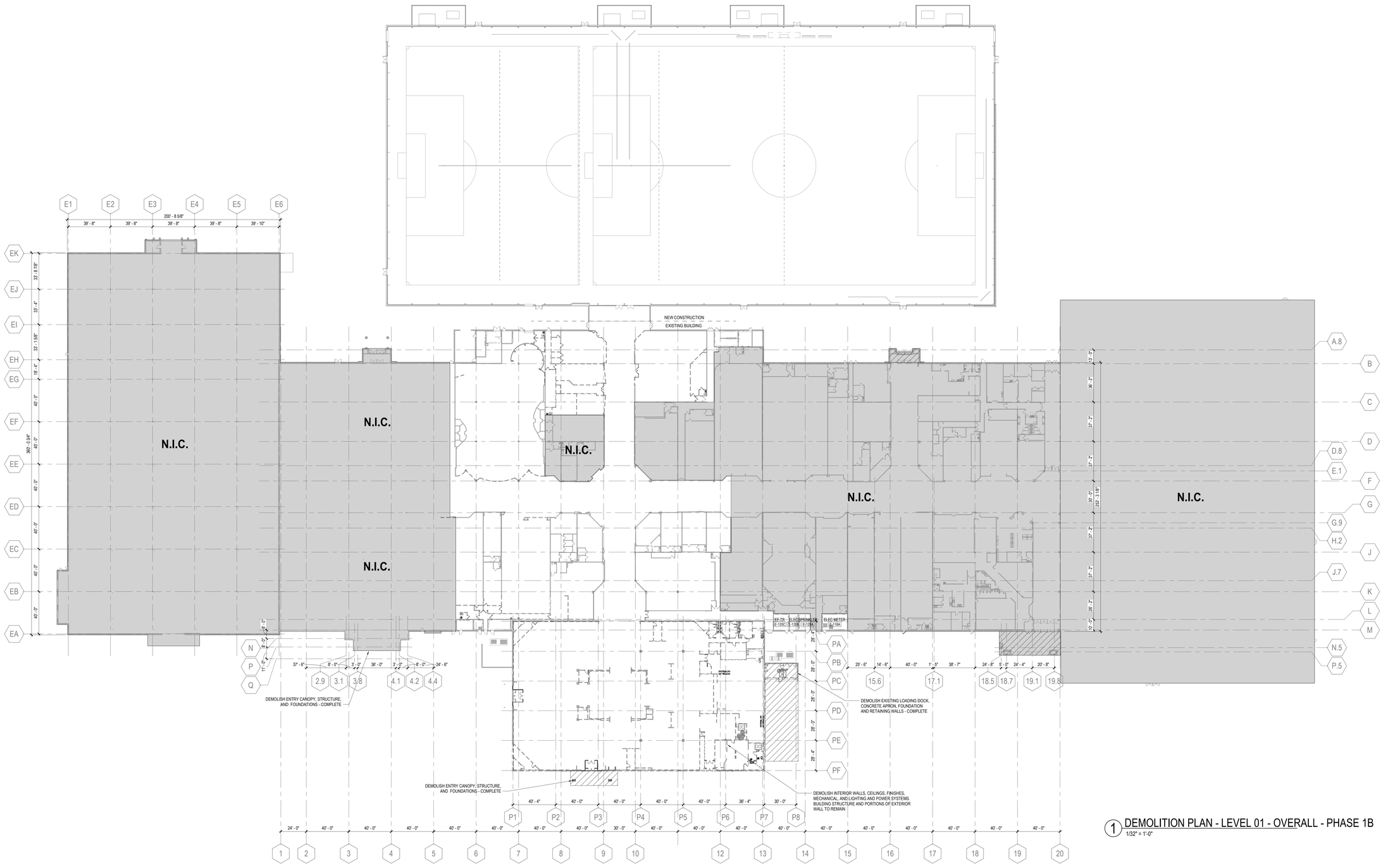


1 DEMOLITION PLAN - LEVEL 01 - OVERALL - PHASE 1B
1/32" = 1'-0"

## DEMOLITION PLAN KEYNOTES

## LEGEND

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- EXISTING CONSTRUCTION TO REMAIN
- EXISTING DOOR AND FRAME TO BE DEMOLISHED
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Job Number

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