

GRANITE CITY HOUSING AUTHORITY SANITARY SEWER REHABILITATION GRANITE CITY, MADISON COUNTY, ILLINOIS



Hurst-Rosche, Inc.
PROFESSIONAL DESIGN NUMBER: 194-00298

NO. 5 BANK SQUARE
EAST ST. LOUIS, IL.
PH: 618.398.0890

www.hurst-rosche.com

HILLSBORO, IL
MARION, IL
SPRINGFIELD, IL
ARNOLD, MO
NASHVILLE, TN

CIVIL ENGINEER:



Hurst-Rosche, Inc.
PROFESSIONAL DESIGN NUMBER: 194-00298

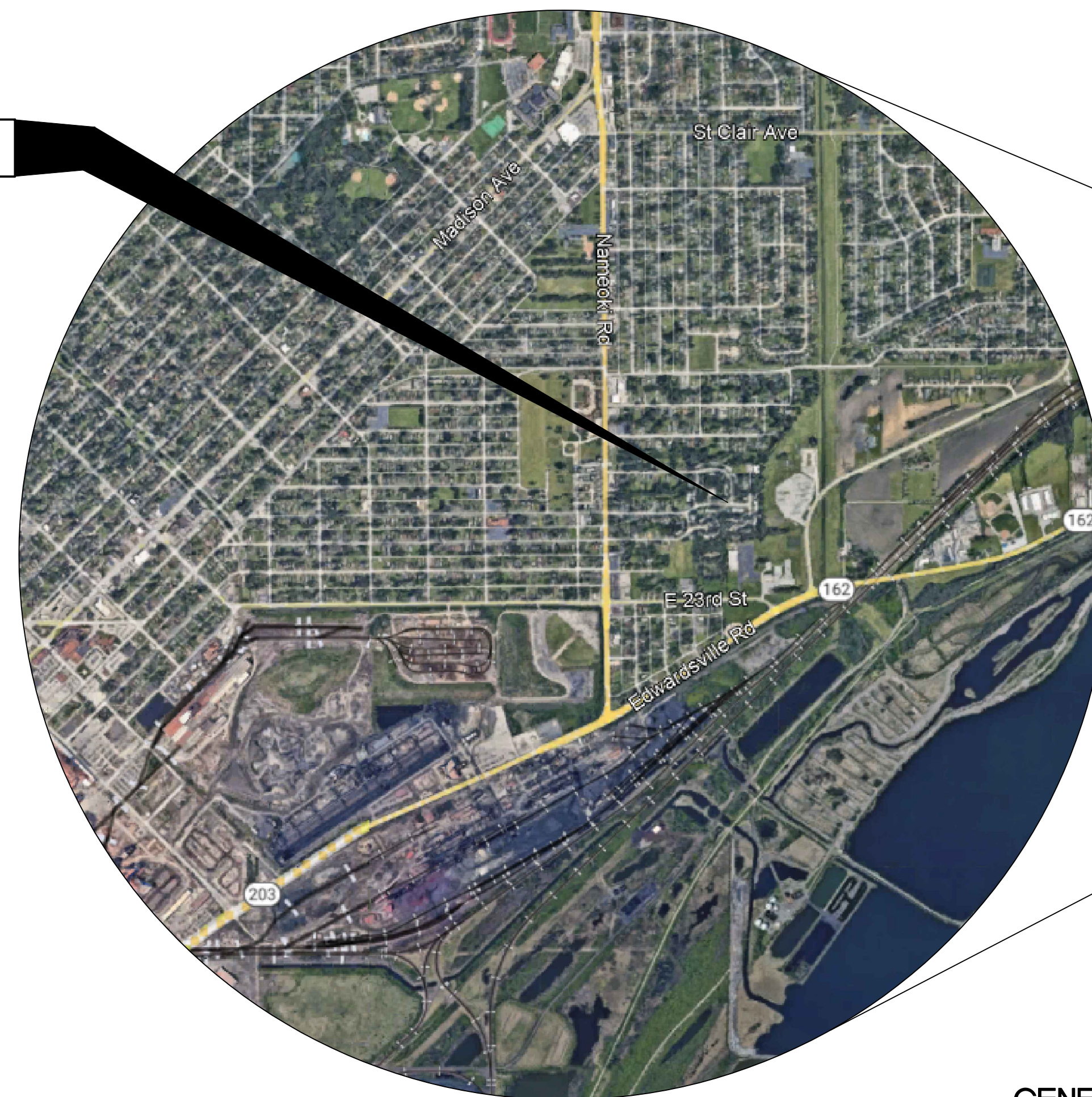
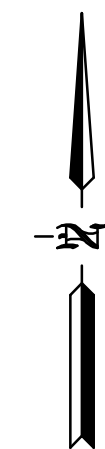
5 Bank Square
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C1.2	EXISTING UTILITY LINES

PROJECT LOCATION



AREA LOCATION MAP
NOT TO SCALE



GENERAL PROJECT NOTES:

- CONFIRMATION WAS RECEIVED FROM ILLINOIS AMERICAN WATER COMPANY THAT THE AWARDED CONTRACTOR WILL BE ALLOWED ACCESS TO THE EXISTING SANITARY SEWER SYSTEM TO CLEAN AND TELEVIEW AS NECESSARY TO LOCATE THE EXISTING LATERALS. THE ENGINEER WILL ASSIST THE AWARDED CONTRACTOR WITH COORDINATING WITH ILLINOIS AMERICAN WATER COMPANY AS NEEDED.
- FOR A GENERAL LAYOUT OF THE UTILITIES IN THE PROJECT AREA, A COPY OF THE ORIGINAL CONSTRUCTION UTILITY PLAN HAS BEEN ATTACHED AT THE END OF THIS PLAN SET (SHEET C1.2) AND PROVIDED TO THE BIDDERS FOR REFERENCE PURPOSES ONLY. VERIFICATION OF THE LOCATION OF UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LOCATED PRIOR TO ANY WORK.
- FOR THE LARGE TREES AND TREE ROOTS ENCOUNTERED IN THE WORK AREAS FOR EACH BUILDING, UNFORESEEN SUBSURFACE OBSTRUCTIONS DISCOVERED DURING CONSTRUCTION THAT RESULT IN ADDITIONAL TIME AND COST TO COMPLETE THE WORK SHALL BE DOCUMENTED BY THE CONTRACTOR IN A WRITTEN NOTIFICATION AND CLAIM FOR AN EQUITABLE ADJUSTMENT TO THE CONTRACT IN ACCORDANCE WITH THE GENERAL CONDITIONS (HUD-5370) ARTICLE 8.

ESTIMATED PROJECT QUANTITIES:

- LUMP SUM - CLEAN AND TELEVIEW THE EXISTING SANITARY SEWER MAIN AS NECESSARY TO DETERMINE THE LOCATION OF THE EXISTING SANITARY SEWER LATERALS, INCLUDING COORDINATION WITH ILLINOIS AMERICAN WATER COMPANY.
- 71 EACH - INSTALL NEW SANITARY SEWER CLEANOUT FOR EACH EXISTING SANITARY SEWER LATERAL REMOVED AND REPLACED AS SHOWN ON THE PROPOSED SITE PLANS AND PURSUANT TO PROJECT DETAILS, INCLUDING CARE OF FLOW.
- 710 LINEAL FEET - REMOVE AND REPLACE EXISTING SANITARY SEWER LATERALS AS SHOWN ON THE PROPOSED SITE PLANS AND PURSUANT TO PROJECT DETAILS, INCLUDING CARE OF FLOW.
- 71 SQUARE YARDS - REMOVE AND REPLACE EXISTING CONCRETE SIDEWALKS IN KIND AS NECESSARY TO COMPLETE THE PROPOSED SANITARY SEWER LATERAL REPLACEMENTS.

GRANITE CITY HOUSING AUTHORITY A/E SERVICES
SANITARY SEWER REHABILITATION
ANCHORAGE HOMES - IL 5-2, 5-4 & 5-5
1800 KIRKPATRICK HOMES
GRANITE CITY, MADISON COUNTY, ILLINOIS 62040

NO.	DATE	DESCRIPTION

DATE: 03-28-2024

PROJECT NO: 280-0454

DESIGN: ZAY DRAWN: JMA CHECK: SMS

COVER SHEET

ISSUED FOR REBID

G-001



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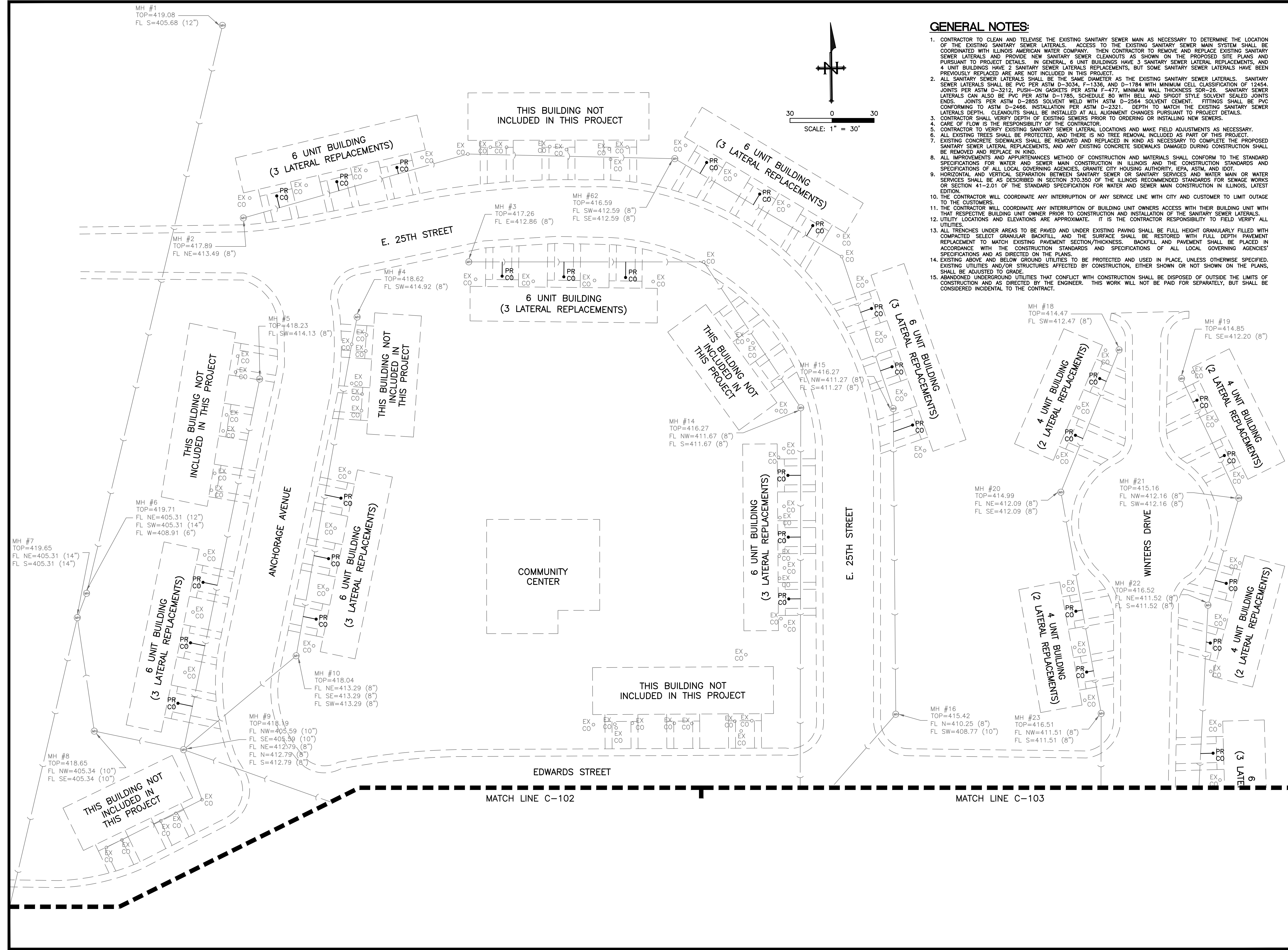
DATE: 03-28-2024
PROJECT NO: 280-0454
DESIGN: ZAY DRAWN: JMA CHECK: SMS

SITE PLAN

C-101

GENERAL NOTES:

- CONTRACTOR TO CLEAN AND TELEVIEW THE EXISTING SANITARY SEWER MAIN AS NECESSARY TO DETERMINE THE LOCATION OF THE EXISTING SANITARY SEWER LATERALS. ACCESS TO THE EXISTING SANITARY SEWER MAIN SYSTEM SHALL BE COORDINATED WITH ILLINOIS AMERICAN WATER COMPANY. THEN CONTRACTOR TO REMOVE AND REPLACE EXISTING SANITARY SEWER LATERALS AND PROVIDE NEW SANITARY SEWER CLEANOUTS AS SHOWN ON THE PROPOSED SITE PLANS AND PURSUANT TO PROJECT DETAILS. IN GENERAL, 6 UNIT BUILDINGS HAVE 3 SANITARY SEWER LATERAL REPLACEMENTS, AND 4 UNIT BUILDINGS HAVE 2 SANITARY SEWER LATERAL REPLACEMENTS, BUT SOME SANITARY SEWER LATERALS HAVE BEEN PREVIOUSLY REPLACED AND ARE NOT INCLUDED IN THIS PROJECT.
- ALL SANITARY SEWER LATERALS SHALL BE THE SAME DIAMETER AS THE EXISTING SANITARY SEWER LATERALS. SANITARY SEWER LATERALS SHALL BE PVC PER ASTM D-3034, F-1336, AND D-1784 WITH MINIMUM CELL CLASSIFICATION OF 12454. JOINTS PER ASTM D-3212, PUSH-ON GASKETS PER ASTM F-477, MINIMUM WALL THICKNESS SDR-26. SANITARY SEWER LATERALS CAN ALSO BE PVC PER ASTM D-1785, SCHEDULE 80 WITH BELL AND SPIGOT STYLE SOLVENT SEALED JOINTS ENDS. JOINTS PER ASTM D-2855 SOLVENT WELD WITH ASTM D-2564 SOLVENT CEMENT. FITTINGS SHALL BE PVC CONFORMING TO ASTM D-2466. INSTALLATION PER ASTM D-2321. DEPTH TO MATCH THE EXISTING SANITARY SEWER LATERALS DEPTH. CLEANOUTS SHALL BE INSTALLED AT ALL ALIGNMENT CHANGES PURSUANT TO PROJECT DETAILS.
- CONTRACTOR SHALL VERIFY DEPTH OF EXISTING SEWERS PRIOR TO ORDERING OR INSTALLING NEW SEWERS.
- CARE OF FLOW IS THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR TO VERIFY EXISTING SANITARY SEWER LATERAL LOCATIONS AND MAKE FIELD ADJUSTMENTS AS NECESSARY.
- ALL EXISTING TREES SHALL BE PROTECTED, AND THERE IS NO TREE REMOVAL INCLUDED AS PART OF THIS PROJECT.
- EXISTING CONCRETE SIDEWALKS SHALL BE REMOVED AND REPLACED IN KIND AS NECESSARY TO COMPLETE THE PROPOSED SANITARY SEWER LATERAL REPLACEMENTS, AND ANY EXISTING CONCRETE SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND.
- ALL IMPROVEMENTS AND APPURTENANCES METHOD OF CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AND THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES, GRANITE CITY HOUSING AUTHORITY, IEPA, ASTM, AND IDOT.
- HORIZONTAL AND VERTICAL SEPARATION BETWEEN SANITARY SEWER OR SANITARY SERVICES AND WATER MAIN OR WATER SERVICES SHALL BE AS DESCRIBED IN SECTION 370.350 OF THE ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS OR SECTION 41-2.01 OF THE STANDARD SPECIFICATION FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION.
- THE CONTRACTOR WILL COORDINATE ANY INTERRUPTION OF ANY SERVICE LINE WITH CITY AND CUSTOMER TO LIMIT OUTAGE TO THE CUSTOMERS.
- THE CONTRACTOR WILL COORDINATE ANY INTERRUPTION OF BUILDING UNIT OWNERS ACCESS WITH THEIR BUILDING UNIT WITH THAT RESPECTIVE BUILDING UNIT OWNER PRIOR TO CONSTRUCTION AND INSTALLATION OF THE SANITARY SEWER LATERALS.
- UTILITY LOCATIONS AND ELEVATIONS ARE APPROXIMATE. IT IS THE CONTRACTOR RESPONSIBILITY TO FIELD VERIFY ALL UTILITIES.
- ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE FULL HEIGHT GRANULARLY FILLED WITH COMPACTED SELECT GRANULAR BACKFILL, AND THE SURFACE SHALL BE RESTORED WITH FULL DEPTH PAVEMENT REPLACEMENT TO MATCH EXISTING PAVEMENT SECTION/THICKNESS. BACKFILL AND PAVEMENT SHALL BE PLACED IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES' SPECIFICATIONS AND AS DIRECTED ON THE PLANS.
- EXISTING ABOVE AND BELOW GROUND UTILITIES TO BE PROTECTED AND USED IN PLACE, UNLESS OTHERWISE SPECIFIED. EXISTING UTILITIES AND/OR STRUCTURES AFFECTED BY CONSTRUCTION, EITHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE ADJUSTED TO GRADE.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF CONSTRUCTION AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.



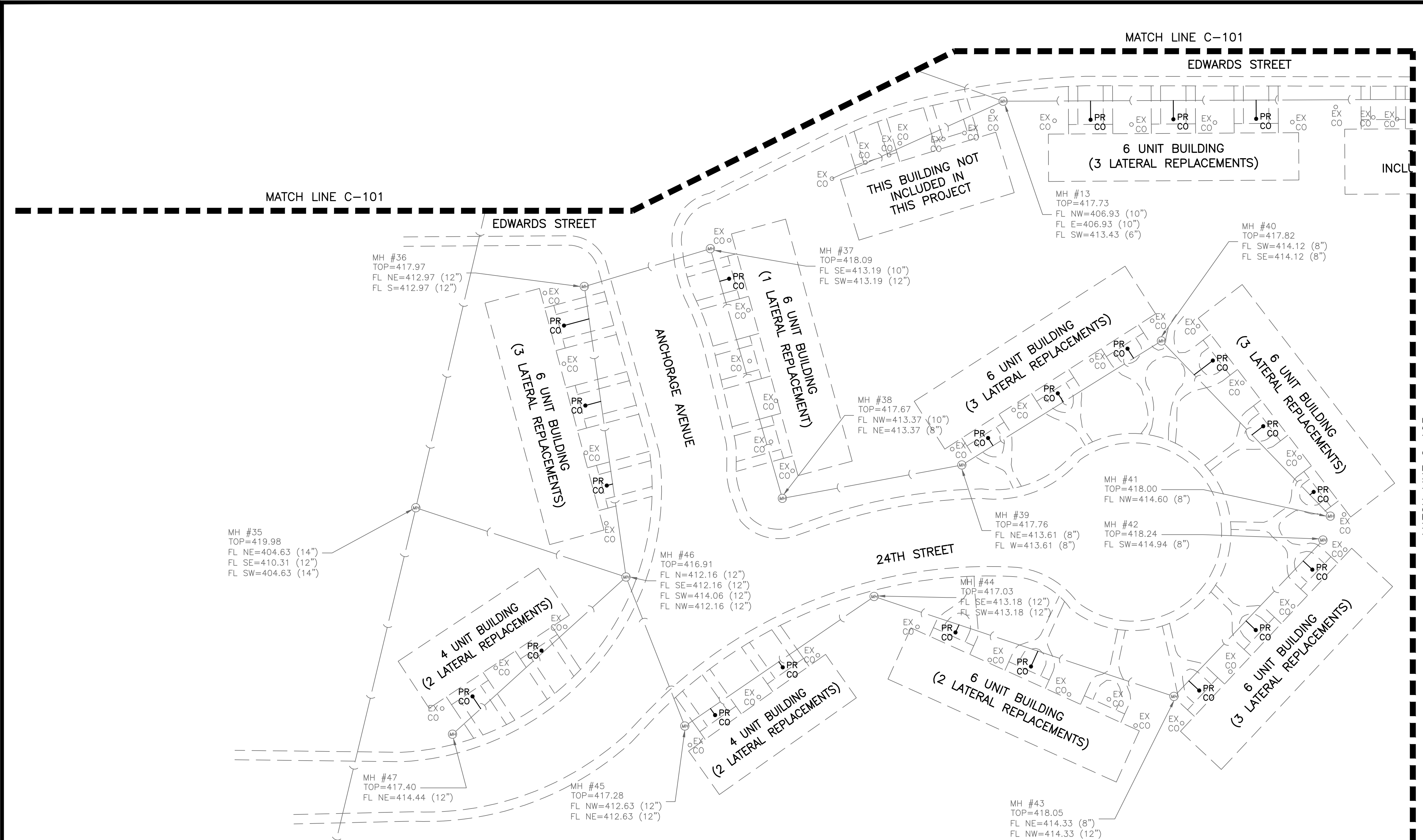
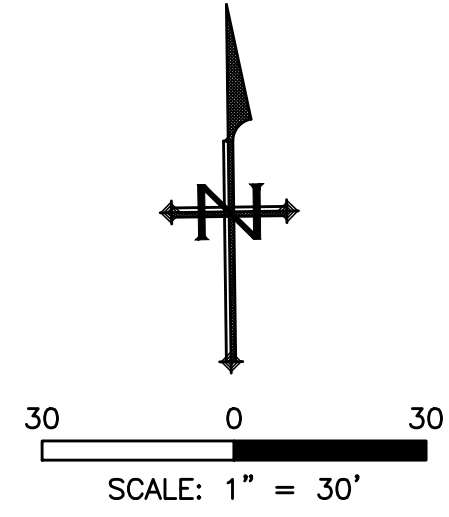


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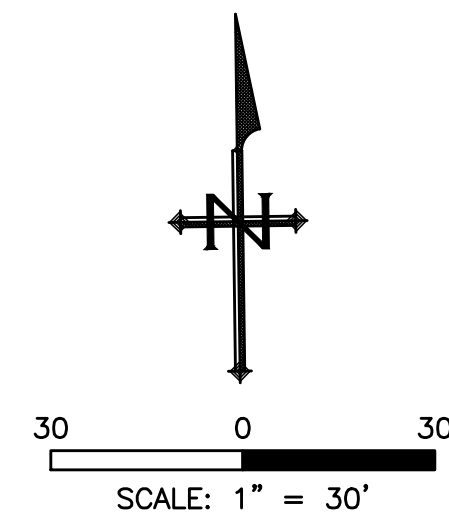
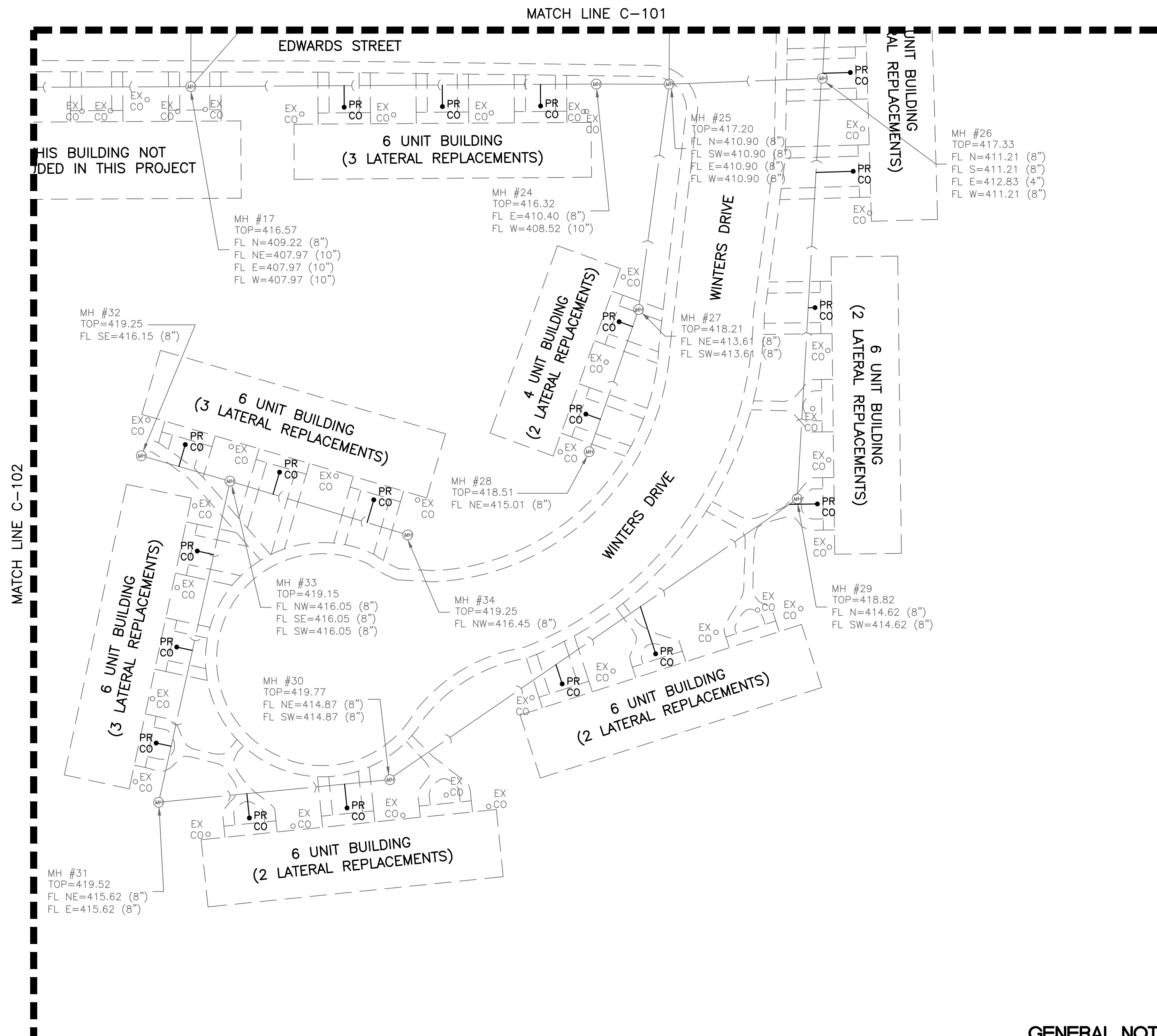
GRANITE CITY HOUSING AUTHORITY A/E SERVICES
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ANCHORAGE HOMES - IL 5-2, 5-4 & 5-5
1800 KIRKPATRICK HOMES
GRANITE CITY, MADISON COUNTY, ILLINOIS 62040

MK.	DATE	DESCRIPTION

DATE: 03-28-2024
PROJECT NO: 280-0454
DESIGN: ZAY DRAWN: JMA CHECK: SMS

SITE PLAN

C-102



GRANITE CITY HOUSING AUTHORITY A/E SERVICES
SANITARY SEWER REHABILITATION
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1800 KIRKPATRICK HOMES
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DATE: 03-28-2024
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SITE PLAN



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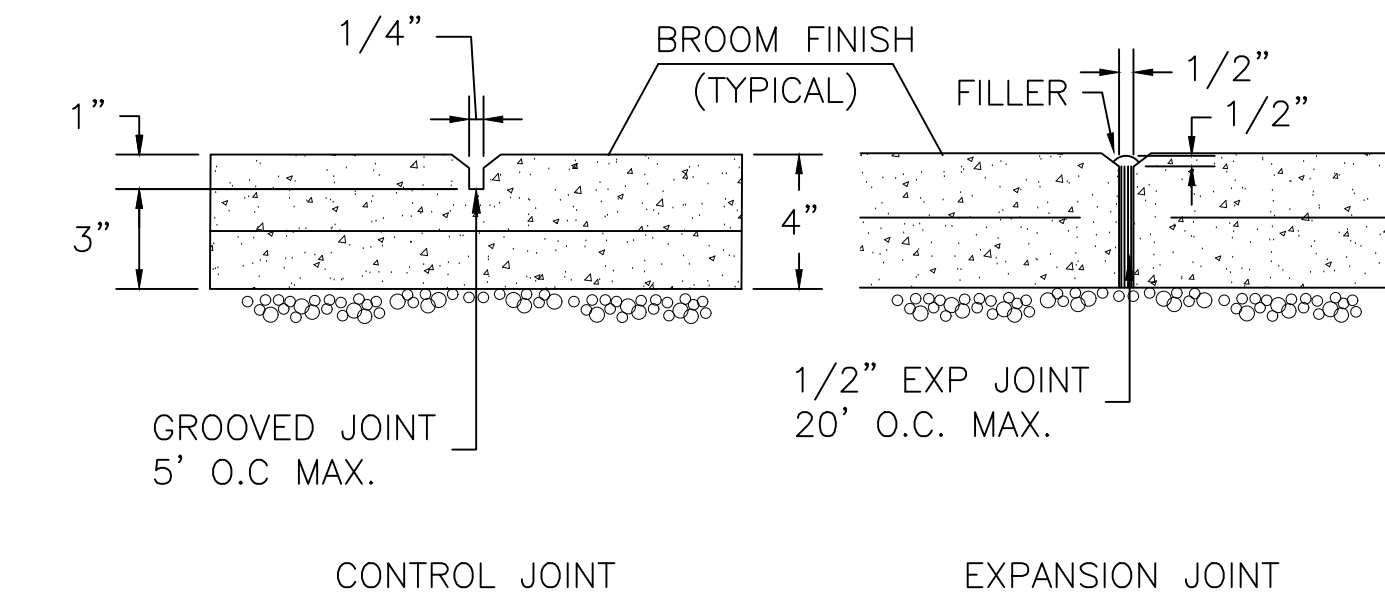
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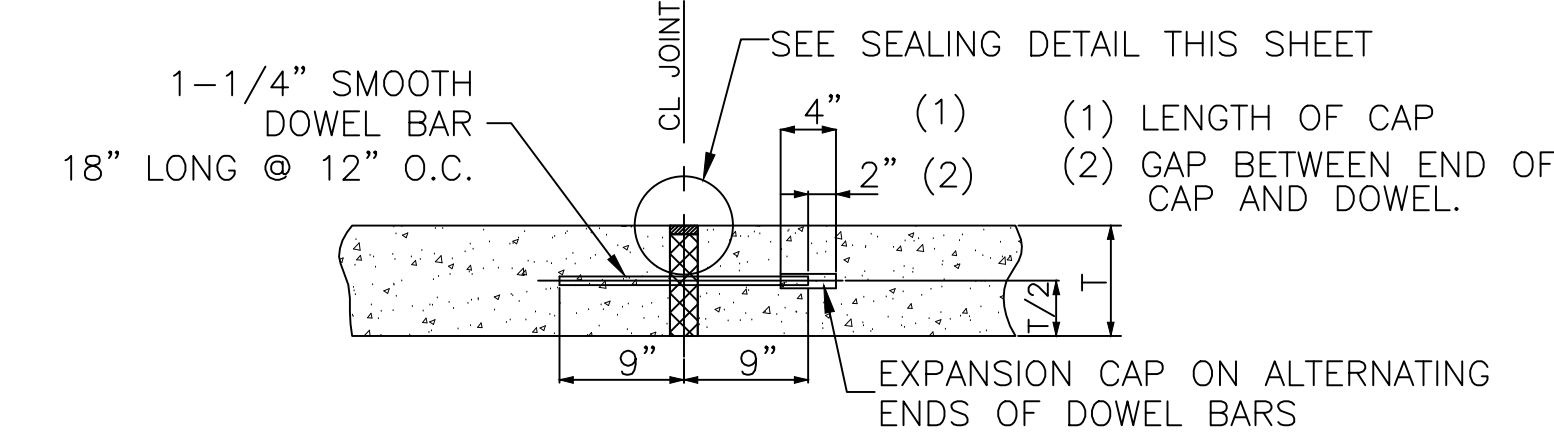
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MISCELLANEOUS
DETAILS

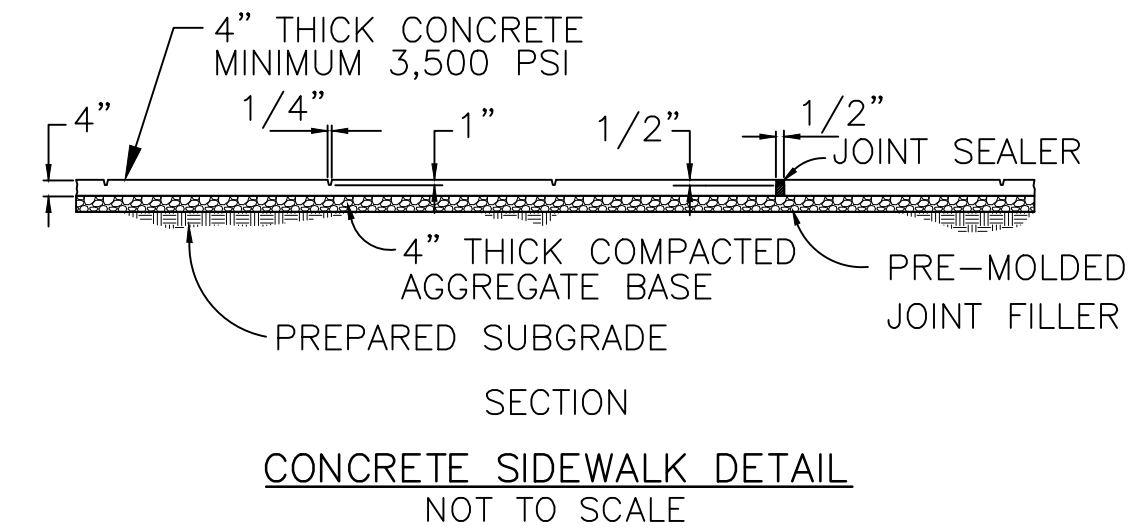
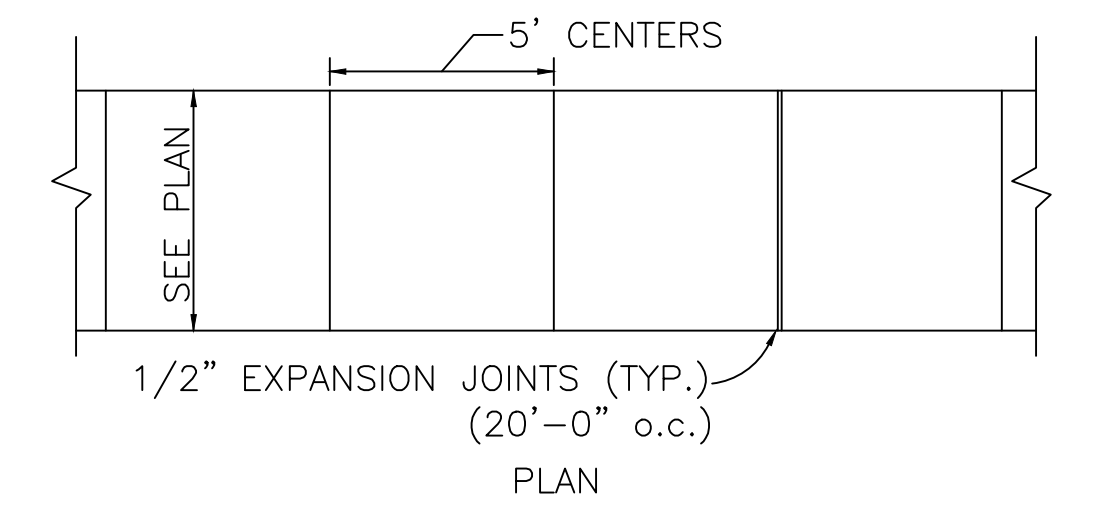
C-501



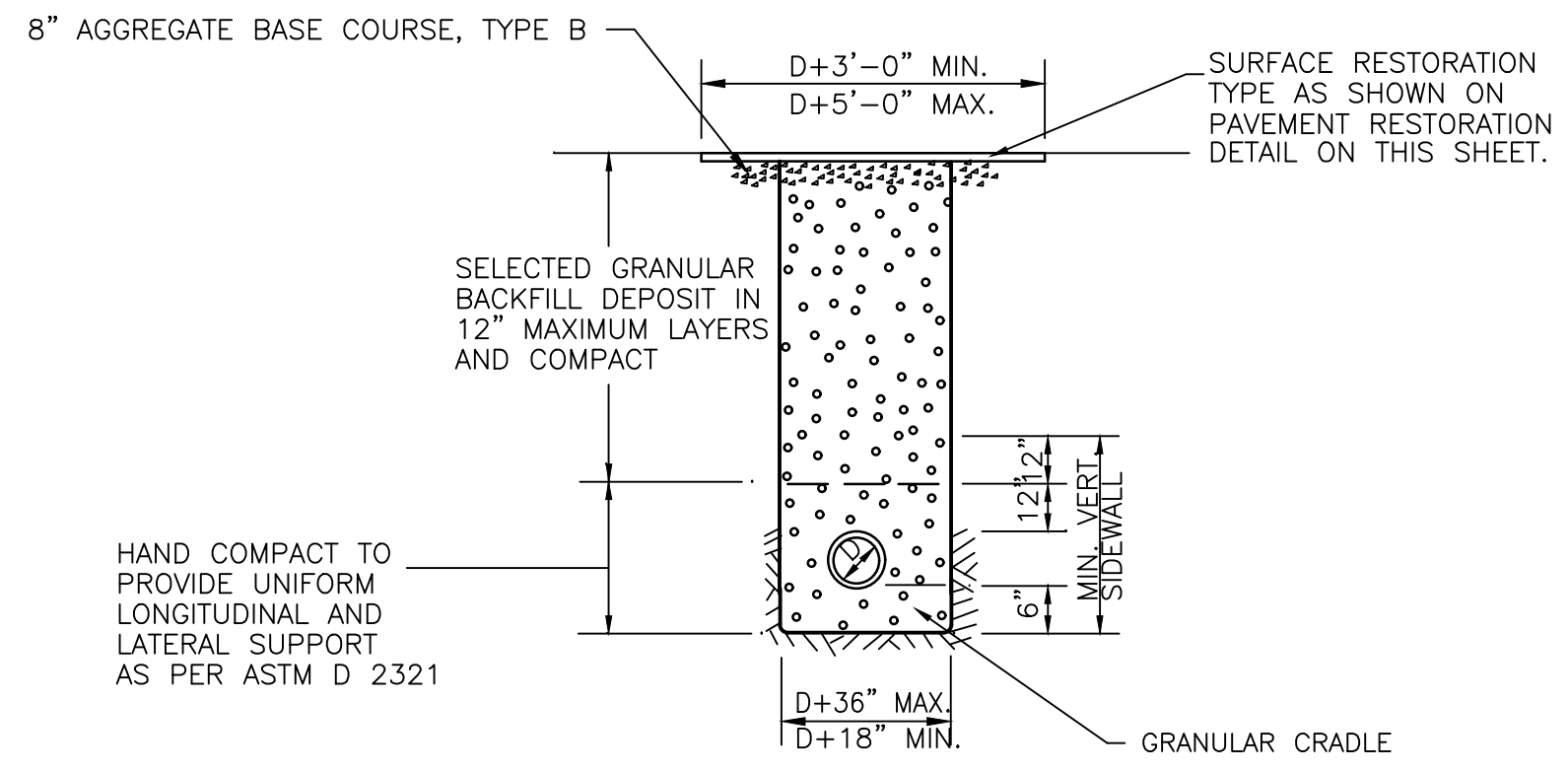
TYPICAL SIDEWALK JOINTS
NOT TO SCALE



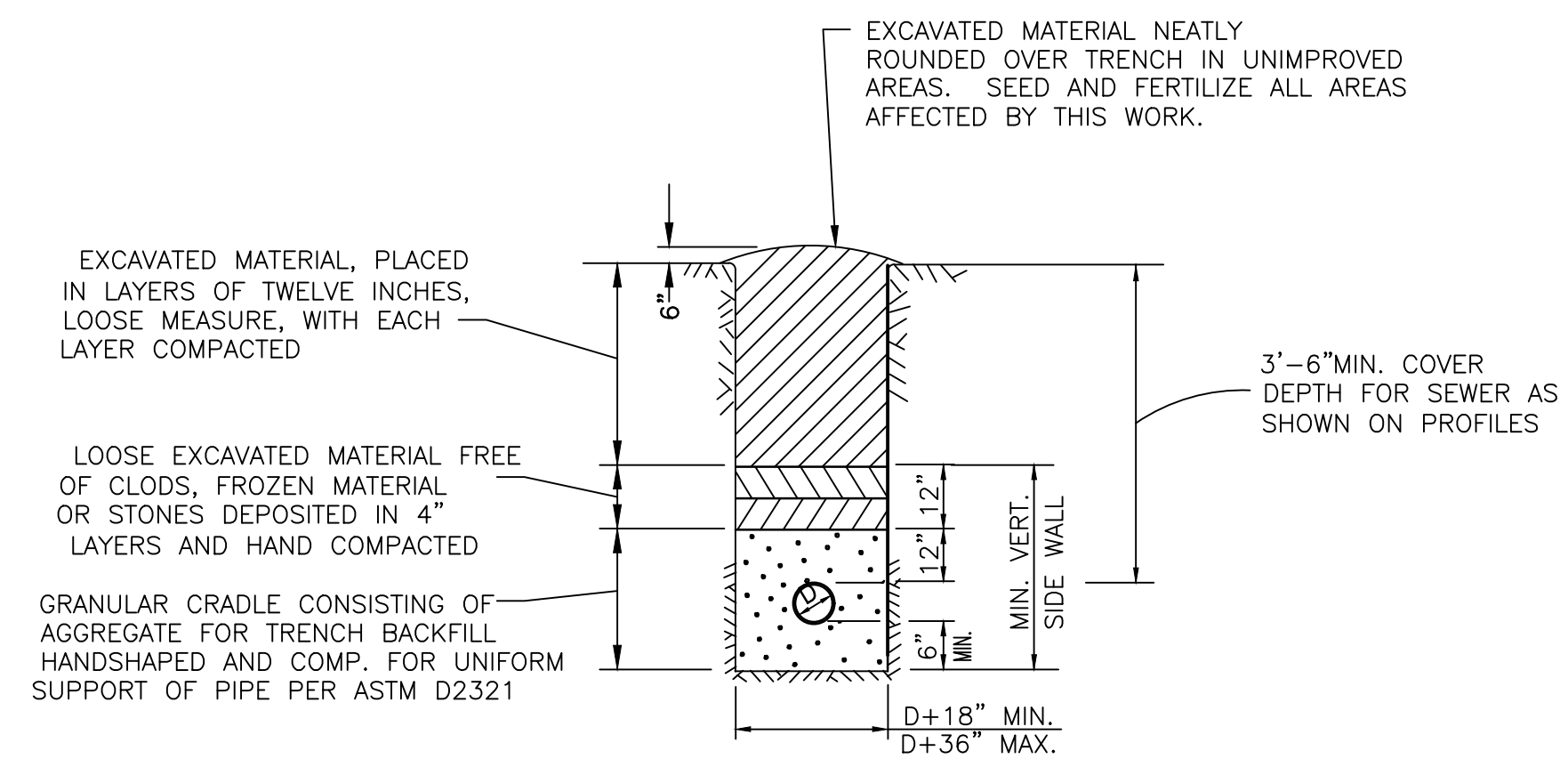
EXPANSION JOINT
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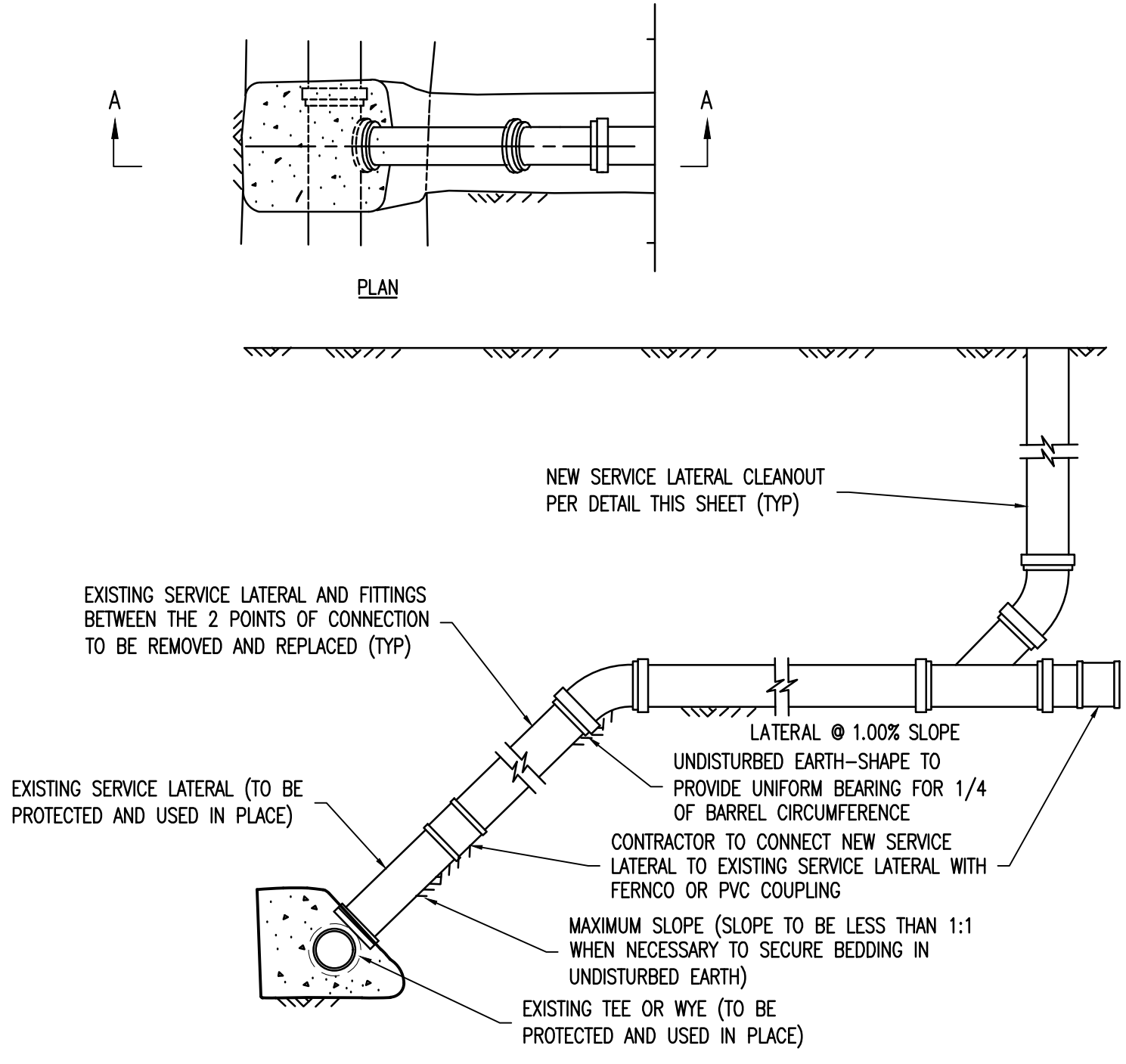
CONCRETE SIDEWALK DETAIL
NOT TO SCALE



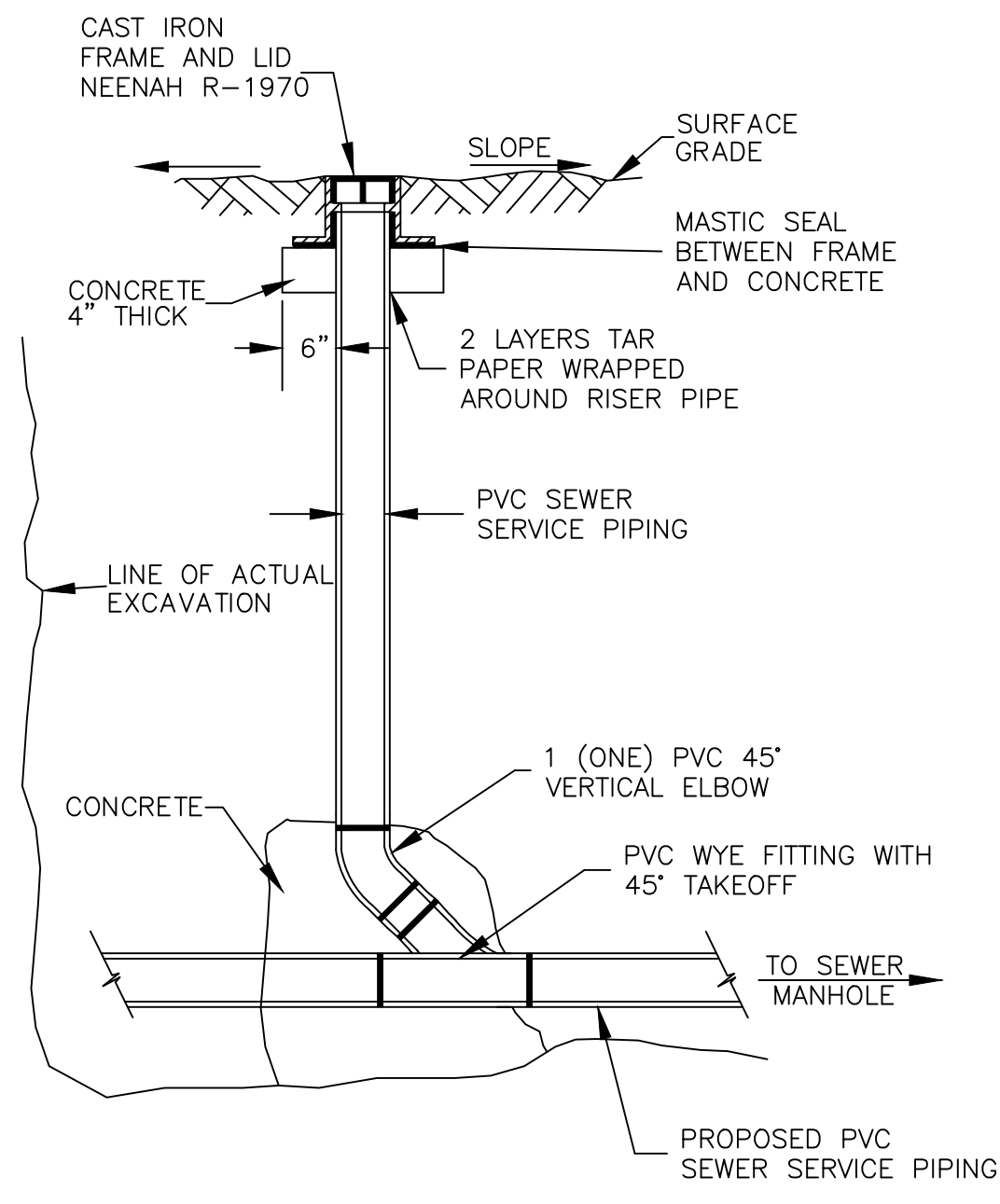
TRENCH DETAIL IMPROVED AREA
NOT TO SCALE



TRENCH DETAIL UNIMPROVED AREA
NOT TO SCALE



TYPICAL SERVICE LATERAL REMOVAL
AND REPLACEMENT DETAIL
NOT TO SCALE

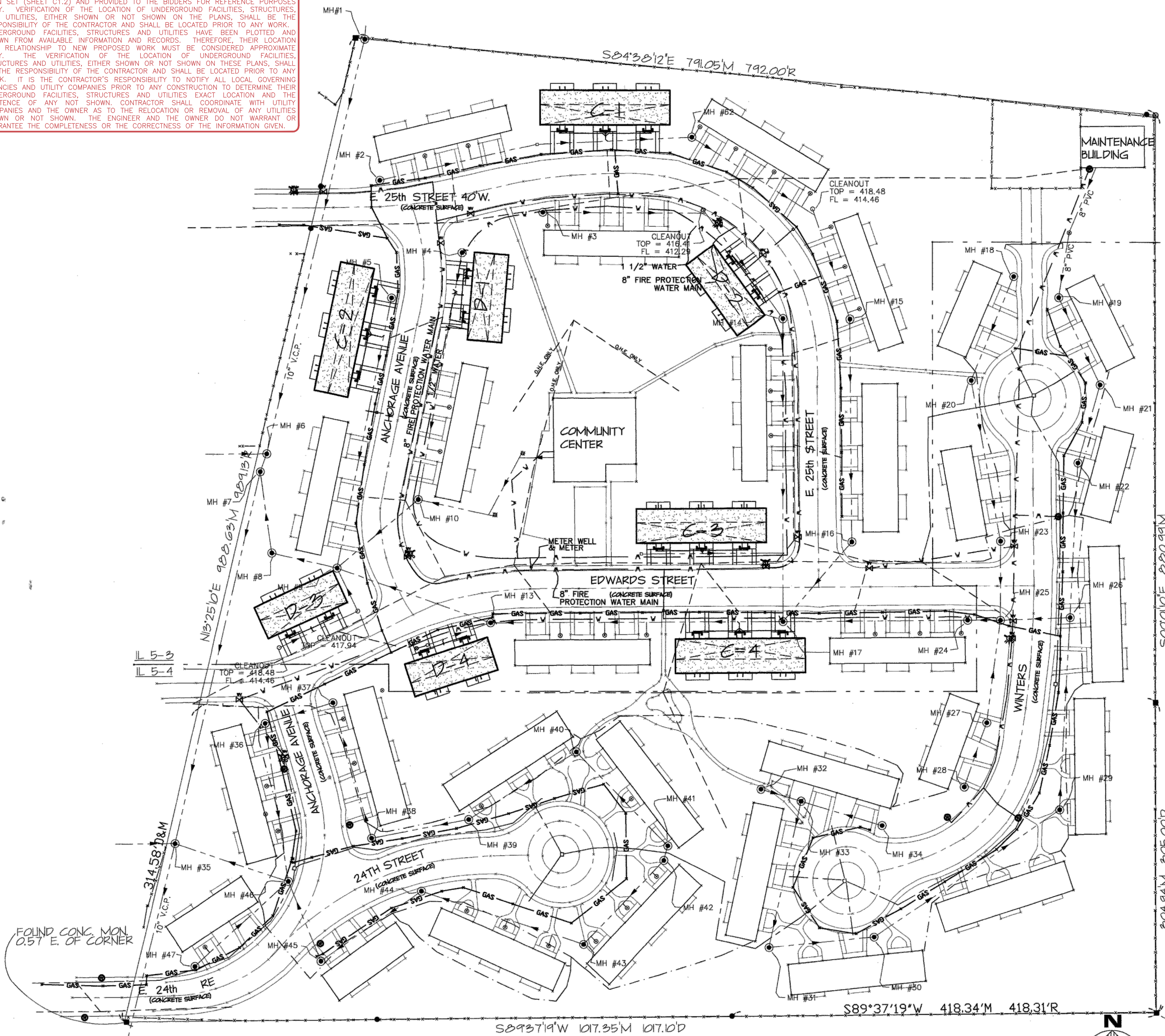


CLEANOUT DETAIL
NOT TO SCALE

EXISTING UTILITY LINES DRAWING DISCLAIMER

1. FOR A GENERAL LAYOUT OF THE UTILITIES IN THE PROJECT AREA, A COPY OF THE ORIGINAL CONSTRUCTION UTILITY PLAN HAS BEEN ATTACHED AT THE END OF THIS PLAN SET (SHEET C1.2) AND PROVIDED TO THE BIDDERS FOR REFERENCE PURPOSES ONLY. VERIFICATION OF THE LOCATION OF UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LOCATED PRIOR TO ANY WORK.

2. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED AND SHOWN FROM AVAILABLE INFORMATION AND RECORDS. THEREFORE, THEIR LOCATION AND RELATIONSHIP TO NEW PROPOSED WORK MUST BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LOCATED PRIOR TO ANY WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL LOCAL GOVERNING AGENCIES AND UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION TO DETERMINE THEIR UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES EXACT LOCATION AND THE EXISTENCE OF ANY NOT SHOWN. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND THE OWNER AS TO THE RELOCATION OR REMOVAL OF ANY UTILITIES SHOWN OR NOT SHOWN. THE ENGINEER AND THE OWNER DO NOT WARRANT OR GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE INFORMATION GIVEN.



SANITARY MANHOLE SCHEDULE

MH #	TOP	FL & DIR	FL & DIR	FL & DIR	FL & DIR
1	419.00	405.77 S.			
2	418.12	413.75' N.E.			
3	417.26	412.79 E.			
4	418.12	415.21 S.W.			
5	418.30	414.34 S.W.			
6	419.86	405.26 S.W.	405.26 S.W.		
7	419.81	405.65 S.	405.65 N.E.		
8	418.11	405.93 S.E.	405.93 N.W.	416.86 S.W.	
9	418.42	406.12 W.	406.12 N.E.	406.12 N.E.	406.12 S.W.
10	418.28	413.66 N.E.	413.66 S.E.	413.66 S.W.	413.62 S.
11	415.93	413.10 S.	413.10 N.W.		
12	415.62	412.08 S.W.	412.08 E.	412.08 N.	
13	417.70	406.86' N.W.	406.86 E.	413.41 S.W.	
14	416.29	410.20 S.	410.20 N.W.		
15	416.33	411.46 S.			
16	415.57	408.64 S.W.	408.64 N.		
17	415.87	407.98 W.	407.98 N.	407.98 N.E.	407.98 E.
18	414.71	412.59 S.W.			
19	415.10	412.32 S.E.	412.32 N.E.		
20	415.19	412.15 N.E.	412.15 S.E.		
21	415.26	412.17 N.W.	412.17 S.W.		
22	416.70	411.62 S.	411.62 N.E.		
23	416.69	411.57 S.	411.57 N.W.		
24	416.53	408.85 W.	408.85 E.		
25	417.39	410.93 N.	410.93 S.W.	410.93 E.	410.93 W.
26	417.91	411.30 N.	411.30 S.	411.30 W.	
27	418.37	413.83 N.E.	413.83 S.W.		
28	418.50	415.94' N.E.			
29	418.41	414.37 S.W.	414.37 N.		
30	419.63	415.20 N.E.	415.20 S.W.		
31	419.51	415.64 E.	415.64 N.E.		
32	419.29	416.51 S.E.			
33	419.22	416.19 N.W.	416.19 S.E.	416.19 S.W.	
34	419.25	416.60 N.W.			
35	420.29	405.09 S.W.	405.09 N.E.	409.59 N.W.	410.65 S.E.
36	417.91	412.88 S.	412.88 N.E.		
37	417.77	412.98 S.W.	412.98 S.E.		
38	417.67	413.28 N.W.	413.28 N.E.		
39	417.86	413.65 S.W.	413.65 N.E.		
40	417.92	414.15 S.W.	414.15 S.E.		
41	418.09	414.82 N.W.	414.82 S.W.		
42	418.41	415.07 S.W.	415.07 N.E.		
43	418.18	414.60 N.E.	414.60 N.W.		
44	417.07	413.09 S.E.	413.09 S.W.		
45	417.23	412.44 N.E.	412.44 N.W.		
46	416.89	413.95 S.W.	412.20 N.W.	412.20 N.	412.20 S.E.
47	417.48	414.52 N.E.			
48	416.57	413.40 W.	413.40 N.	413.40 S.	413.40 E.
49	417.81	412.45 W.	412.45 N.E.		
50	417.35	411.93 S.W.	411.93 N.E.		
51	415.62	411.97 N.	411.97 S.W.	411.97 S.E.	
52	418.87	412.59 N.W.	412.59 S.E.		
53	416.83	413.68 N.W.			
54	416.66	412.78 E.	412.78 S.	412.78 W.	
55	416.09	410.33 E.	410.33 W.	410.33 N.	
56	415.59	409.61 S.	409.61 N.		
57	415.38	409.31 S.	409.31 E.		
58	414.65	408.95 W.	408.95 S.	408.95 E.	
59	414.61	408.41 W.	408.41 E.		
60	417.04	415.18 S.			
61	416.72	414.91 N.			
62	416.59	412.49 S.W.	412.49 S.E.		
63	414.69	400.01 S.W.	400.01 N.E.		

SEE C2 - SERIES SHEETS FOR LOCATIONS OF UNDERGROUND UTILITIES

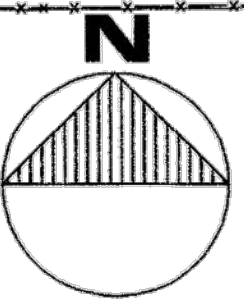
LEGEND

- OVERHEAD ELECTRIC, TELEPHONE, & CABLE LINE UNLESS OTHERWISE NOTED
- UNDERGROUND ELECTRIC LINE
- v- WATER LINE
- SANITARY LINE
- GAS- GAS LINE
- UNDERGROUND TELEPHONE LINE

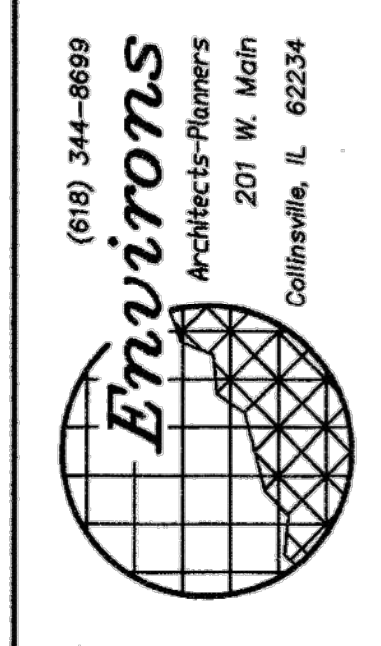
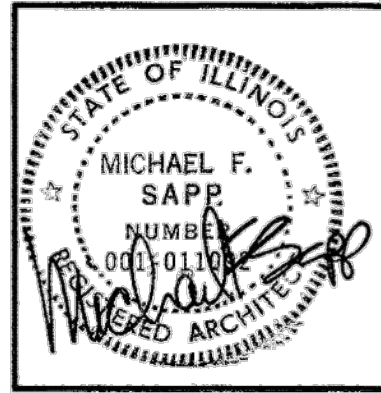
NOTE:
 GAP EXISTING UNDERGROUND UTILITIES INCLUDING WATER, GAS, SANITARY SEWER, ETC. SERVING BUILDINGS BEING REMOVED AT MAIN IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
 REMOVE ELECTRIC AND TELEPHONE UTILITIES TO SERVICE LOCATION IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.

SANITARY PLAN

04 25 50 FEET
1" = 50'



FOUND CONC. MON. 0.57' E. OF CORNER



JOB NO.
00054C

DATE:
FEBRUARY 23, 2001

REVISED:

PROJECT NO.
IL 5-3

ANCHORAGE HOMES IL 5-3
GRANITE CITY HOUSING AUTHORITY
 1800 KIRKPATRICK HOMES
 GRANITE CITY, IL 62040

NEW ONE-BEDROOM UNITS FOR
GRANITE CITY HOUSING AUTHORITY
 1800 KIRKPATRICK HOMES
 UTILITY LINES

SHEET
C1.2
 OF 8