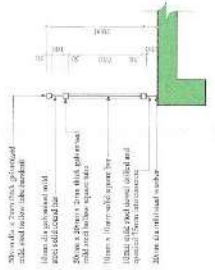
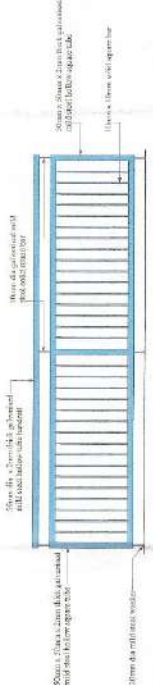


TYPICAL LAYOUT
scale 1:25



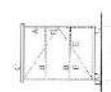
TYPICAL BALUSTRADE SECTION
scale 1:25



TYPICAL BALUSTRADE ELEVATION
scale 1:25



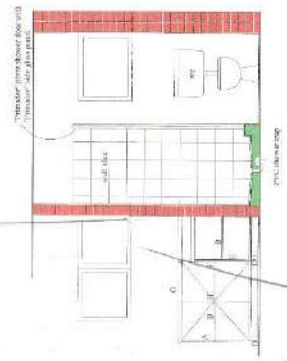
ELEVATION 1
scale 1:25



ELEVATION 2 - Next to stove position
scale 1:25



ADMIN KITCHEN BIC DETAIL
scale 1:25



SHOWER DETAIL
scale 1:25

THIS DRAWING IS THE PROPERTY OF THE ENGINEERING FIRM AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE ENGINEERING FIRM.

REV. DATE. DESCRIPTION.

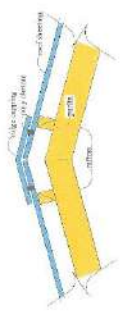
TITLE:
PROVISION OF MECHANICAL, ELECTRICAL AND PLUMBING SERVICES FOR THE OFFICE OF THE DIRECTOR OF THE POLICE DEPARTMENT, PHOENIX, ARIZONA.

DESIGNED BY:
APPROVED BY:
DATE: 12/14/13
SCALE: AS SHOWN

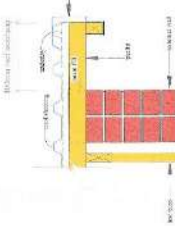
PROJECT NO.: 13-000000-003

ENGINEERING FIRM: **PROTECHNOLOG**
1000 N. CENTRAL AVENUE, SUITE 1000, PHOENIX, ARIZONA 85004
PH: 602.441.1111 FAX: 602.441.1112
WWW.PROTECHNOLOG.COM

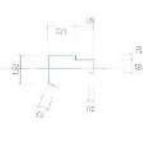
REGISTERED PROFESSIONAL ENGINEER
STATE OF ARIZONA
NO. 12111
EXPIRES 12/31/15



TYPICAL DETAIL OF ROOF APPEX
scale 1:10



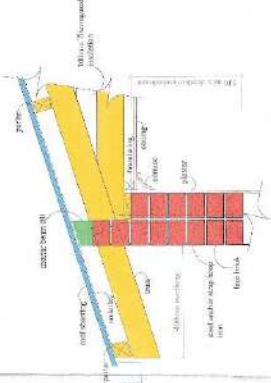
SECTION THROUGH GABLE WALL AT ROOF
scale 1:10



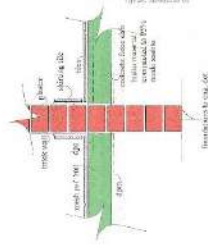
TYPICAL BARGE CAPPING
TIMBER ROOF
scale 1:10



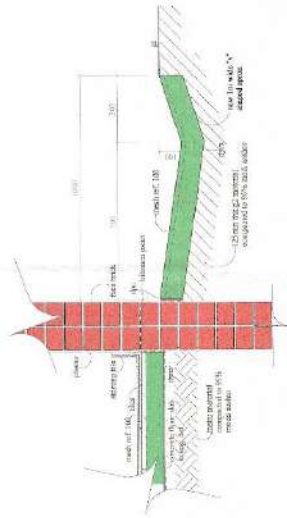
TYPICAL BARGE CAPPING
STEEL STRUCTURES
scale 1:10



TYPICAL TIMBER ANCHORAGE DETAIL
scale 1:10



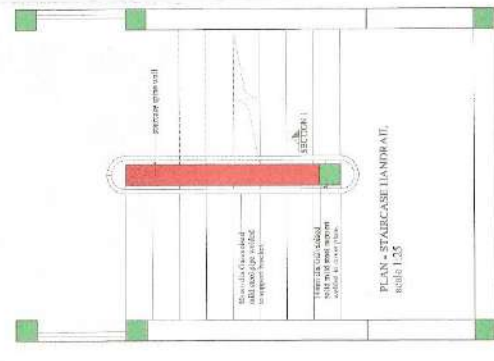
TYPICAL SECTION
(Internal walls)
scale 1:10



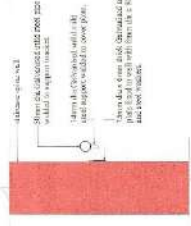
TYPICAL SECTION THROUGH
CONCRETE ARRON
scale 1:10



EXTERNAL WALL & VERANDAH
scale 1:20



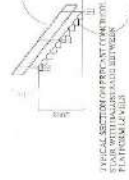
PLAN - STAIRCASE LANDING
scale 1:25



TREAD REED DETAIL
scale 1:10



TYPICAL SECTION BETWEEN FLOOR LEVELS
scale 1:10



TYPICAL SECTION THROUGH WITH
STAIR WITH HANDRAILS BETWEEN
PLATFORMS scale 1:10

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT AUSTRALIAN STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION.

THIS DRAWING IS TO BE USED FOR CONSTRUCTION WITH ALL MATERIALS AND METHODS OF CONSTRUCTION AS SPECIFIED IN THE DRAWING.

REV: DATE: DRAWN BY: CHECKED BY:

TITLE: FOUNDATION AND WALLS FOR THE CONSTRUCTION OF THE STAIRCASE AND VERANDAH FOR THE STAIRCASE AND VERANDAH.

APPROVAL: [Signature]

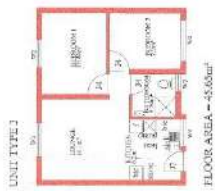
PROJECT: [Project Name]

DATE: [Date]

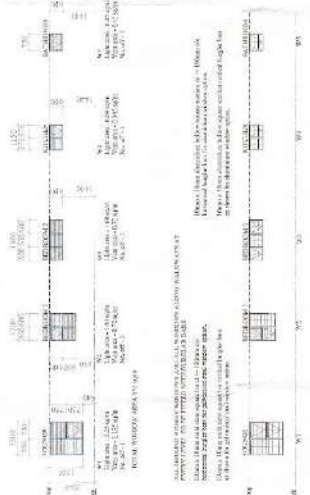
DRAWING NUMBER: [Drawing Number]



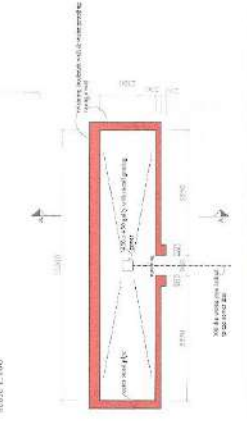
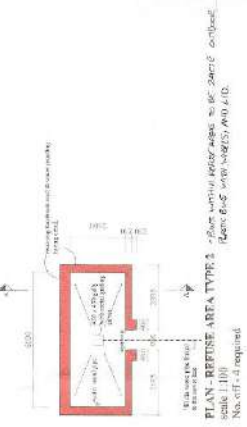
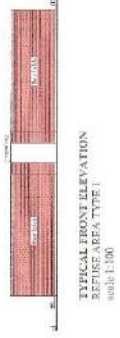
PROFESSIONAL ENGINEER



WINDOW SCHEDULE AS PER TYPICAL UNIT
 *Mount window hardware (handles and glass) to be completed by the owner. All window hardware to be installed by the owner. All window hardware to be installed by the owner. All window hardware to be installed by the owner.



- UNIT TYPE 1:
TOTAL GROSS AREA: 41.04sqft
TOTAL NET AREA: 38.50sqft
TOTAL WINDOW AREA: 4.54sqft
- UNIT TYPE 2:
TOTAL GROSS AREA: 43.77sqft
TOTAL NET AREA: 41.23sqft
TOTAL WINDOW AREA: 2.54sqft
- UNIT TYPE 3:
TOTAL GROSS AREA: 53.65sqft
TOTAL NET AREA: 51.11sqft
TOTAL WINDOW AREA: 2.54sqft
- UNIT TYPE 4:
TOTAL GROSS AREA: 63.77sqft
TOTAL NET AREA: 61.23sqft
TOTAL WINDOW AREA: 2.54sqft



PLAN - REFUSE AREA TYPE 1 - 8'00" x 10'00" (8'00" x 10'00")
 Scale 1:100
 No. off. = 5 required

PLAN - REFUSE AREA TYPE 2 - 8'00" x 10'00" (8'00" x 10'00")
 Scale 1:100
 No. off. = 1 required

REV.	DATE	DESCRIPTION

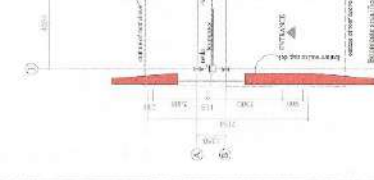
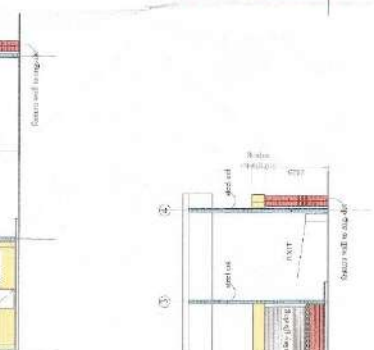
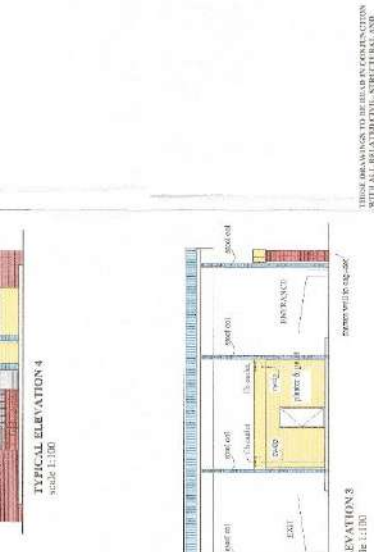
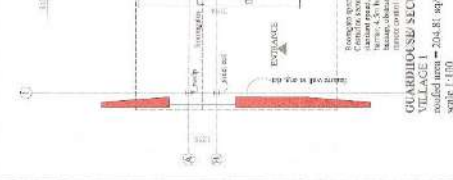
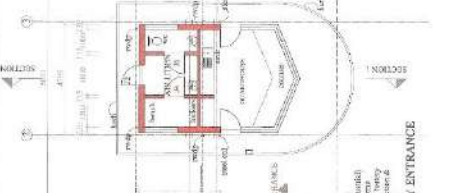
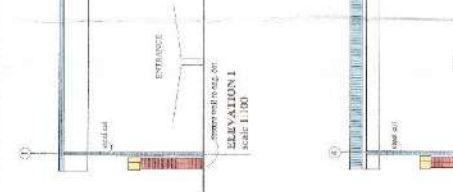
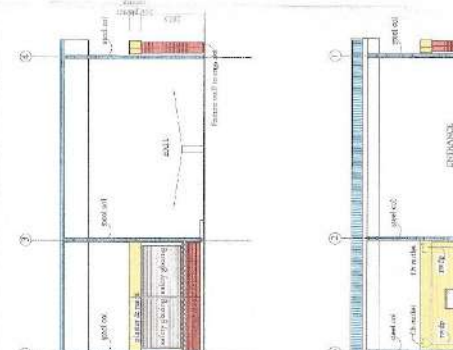
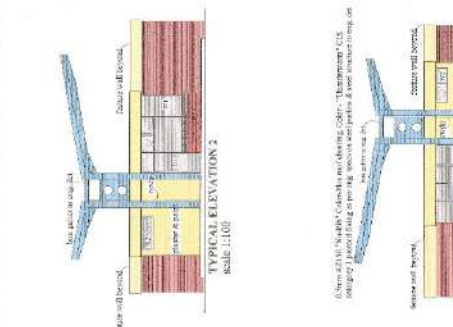
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELATED CIVIL, STRUCTURAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.

TITLE: **REFUSE AREA TYPE 1 AND 2**
 PROJECT: **REFUSE AREA TYPE 1 AND 2**
 CLIENT: **REFUSE AREA TYPE 1 AND 2**
 DRAWING NO.: **REFUSE AREA TYPE 1 AND 2**
 SHEET NO.: **REFUSE AREA TYPE 1 AND 2**

DESIGNED BY: **REFUSE AREA TYPE 1 AND 2**
 CHECKED BY: **REFUSE AREA TYPE 1 AND 2**
 APPROVED BY: **REFUSE AREA TYPE 1 AND 2**

ARCHITECT: **ARCHITECT NO. 03**
 1111 N. LAKE STREET, SUITE 100, CHICAGO, IL 60610
 TEL: (773) 344-1111
 WWW.ARCHITECTNO.COM

REGISTERED PROFESSIONAL ARCHITECT
 STATE OF ILLINOIS
 NO. 046683



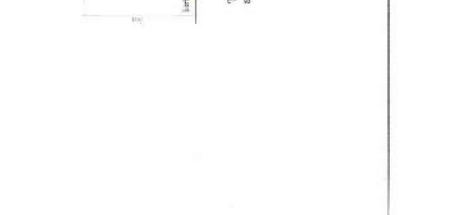
REV	DATE	DESCRIPTION

TITLE:
 PROJECT: GUARDHOUSE/SECURITY ENTRANCE VILLAGE
 DRAWING NO.: 20481-101
 DATE: 10/20/2010
 PROJECT LOCATION: BAHAMAS
 CLIENT: USMC
 ARCHITECT: HOK

APPROVAL	DATE	DESCRIPTION

ARCHITECT: HOK
 1000 K STREET, N.W.
 WASHINGTON, D.C. 20004
 TEL: (202) 462-6000
 WWW.HOK.COM

GUARDHOUSE/SECURITY SCHEDULE:
 1. 10' x 10' x 10' (10' x 10' x 10')



GUARDHOUSE/SECURITY ENTRANCE VILLAGE 2
 roofed area = 131.85 sqm
 scale 1:100

GUARDHOUSE/SECURITY ENTRANCE VILLAGE 1
 roofed area = 204.81 sqm
 scale 1:100



DESIGNED FOR THE GENERAL INFORMATION OF THE CLIENT AND NOT FOR CONSTRUCTION. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES.

SYMBOLS AND NOTATIONS

- PROPOSED DRIVEWAY
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED DRIVEWAY
- PROPOSED DRIVEWAY

ALL DIMENSIONS ARE IN FEET AND INCHES (F'-INCHES). DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.



PARTIAL SITE PLAN - VILLAGE 2
6/18/2010

PROPOSED DRIVEWAY TO BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL, STATE AND FEDERAL REQUIREMENTS. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES.

TITLE
PARTIAL SITE PLAN - VILLAGE 2
6/18/2010

DESIGNED BY
ARCHITECTURAL GROUP

PROJECT NO.
12456

DATE
06/13

SCALE
AS SHOWN

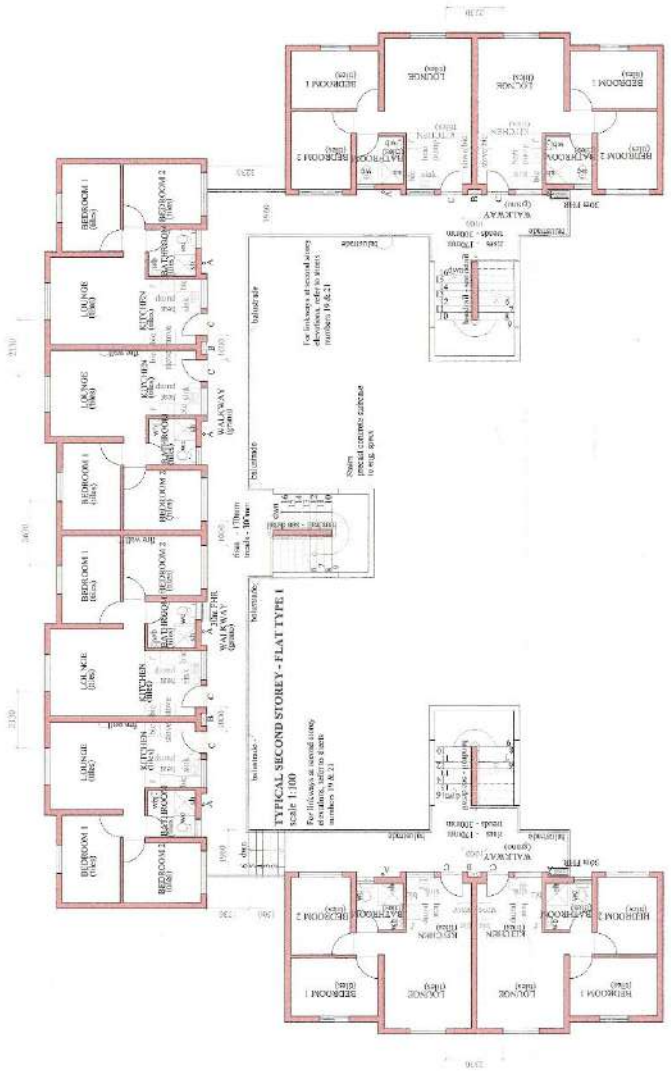
PROJECT LOCATION
DUNBAR ROAD, VILLAGE 2



ARCHITECTURAL GROUP
12456
06/13



FOR STORMWATER DETAILS REFER TO ENGINEERS LAYOUTS
 FOR SEWER DETAILS REFER TO ENGINEERS LAYOUTS
 FOR FIRE SUPPLY LINES & RING MAIN REFER TO FIREWORKS LAYOUTS
 FOR EMERGENCY WATER DETAILS REFER TO ENGINEERS LAYOUTS



TYPICAL SECOND STOREY - FLAT TYPE 4
 scale 1:100

TYPICAL SECOND STOREY - FLAT TYPE 1
 scale 1:100

THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION, CONTRACT BILL OF MATERIALS AND ALL RELEVANT BUILDING REGULATIONS.

REV	DATE	DESCRIPTION

TITLE:
 PROPOSED NEW WETLANDS REHABILITATION
 PROJECT FOR THE
 PROPOSED WETLANDS
 FOR WINDING HOUSING ASSOCIATION.
 DRAWING:
 BLOCK E

APPROVAL:
 Drawn by: [Signature]
 Checked by: [Signature]
 Design: [Signature]



PROJECT NO: 100000000
 DRAWING NO: 100000000
 SHEET NO: A.023

- LEGEND
- A - 10mm x 10mm x 10mm steel plate
 - B - 20mm x 25mm x 10mm void for Corrosion relief
 - C - 10mm void for cable
 - D - 10mm void for cable
 - E - 10mm void for cable
 - F - 10mm x 25mm void for external cable

TYPICAL SECOND STOREY
 BLOCK E
 No OFF - 1



THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND ELECTRICAL ENGINEERING DRAWINGS.

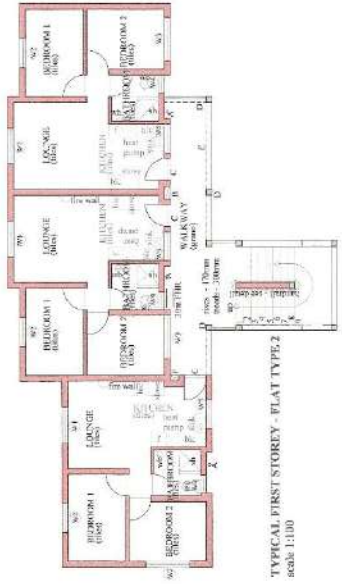
NOV 15 2014
 PROJECT: [illegible]
 DRAWING: [illegible]

TITLE:
 PROPOSED NEW 6-STORE MEDICAL BUILDING
 FOR RENAISSANCE ASSOCIATION
 DRAWING:
 PROPOSED NEW 6-STORE MEDICAL BUILDING
 FIRST & SECOND STOREY LAYOUT

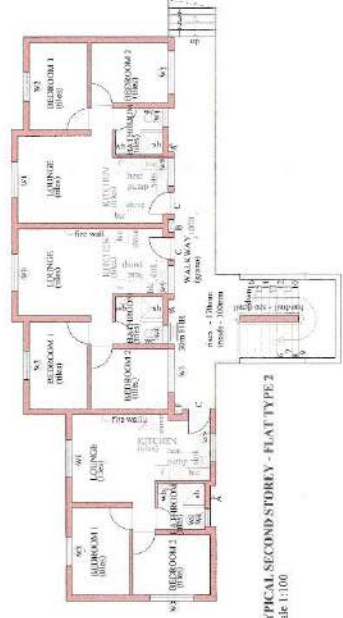
APPROVAL:
 [Signature]
 [Signature]
 [Signature]



REGISTRATION NO. 114
 REGISTERED PROFESSIONAL ENGINEER
 ELECTRICAL ENGINEERING
 DRAWING NUMBER: 2012-250
 SHEET 15 OF 13 REV. A

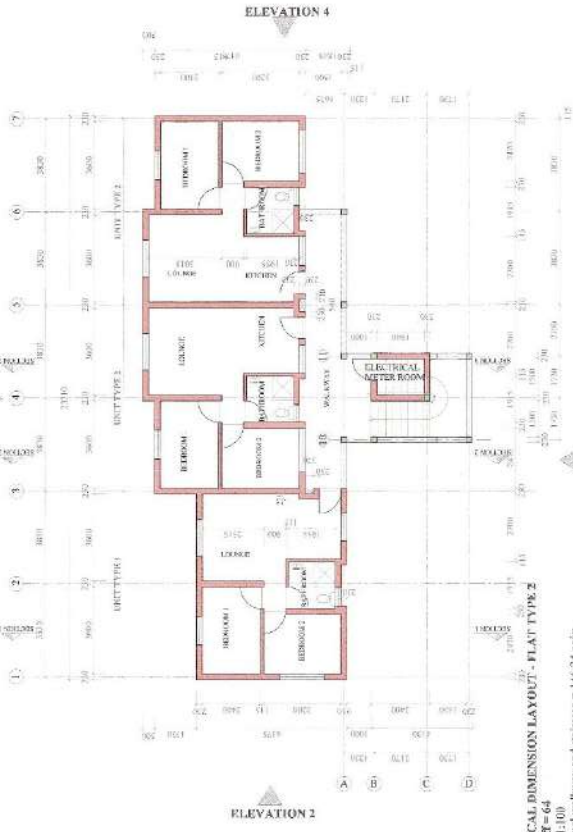


TYPICAL FIRST STOREY - FLAT TYPE 2
 scale 1:100

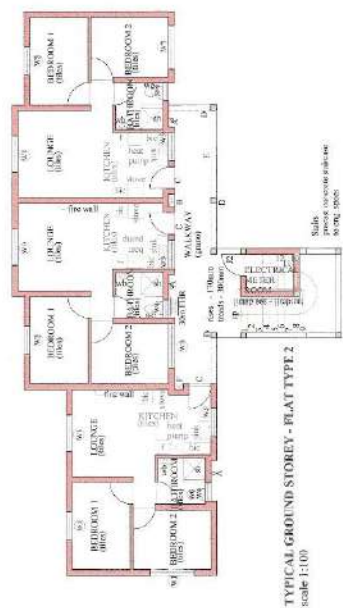


TYPICAL SECOND STOREY - FLAT TYPE 2
 scale 1:100

- LEGEND
- A - 110mm dia. air vent duct.
 - B - 110mm C.P. duct used for exhaust cables.
 - C - 110mm dia. duct for exhaust cables.
 - D - 110mm dia. duct for exhaust cables.
 - E - 110mm dia. duct for exhaust cables.
 - F - 110mm dia. duct for exhaust cables.
 - G - 110mm dia. duct for exhaust cables.

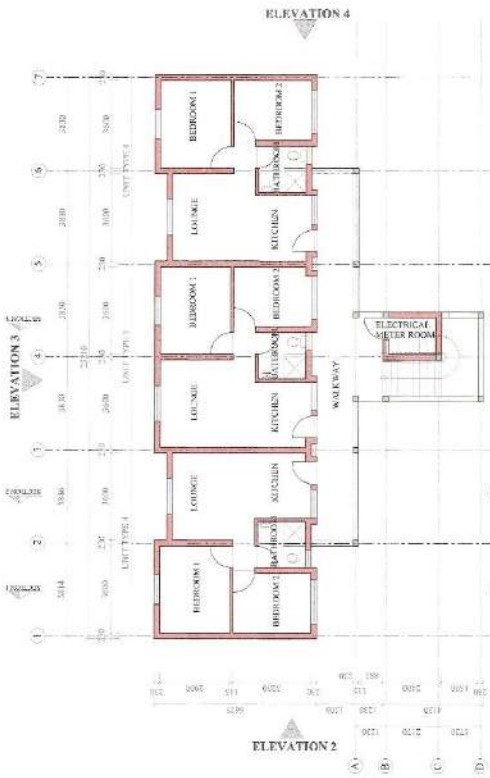


TYPICAL DIMENSION LAYOUT - FLAT TYPE 2
 No. of flat = 64
 scale 1:100
 area and walkway and staircase = 146.24 sqm
 area incl walkway and staircase = 185.27 sqm



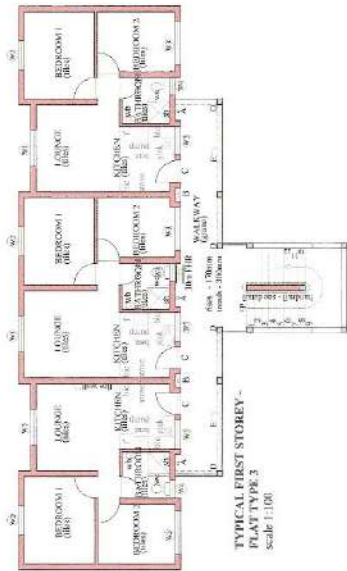
TYPICAL GROUND STOREY - FLAT TYPE 2
 scale 1:100

Scale
 please refer to site plan
 100mm = 1:100



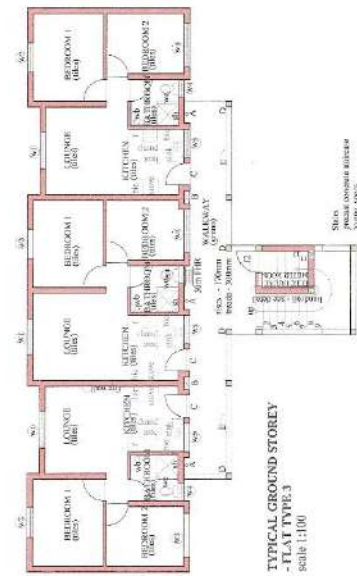
TYPICAL DIMENSION LAYOUT - FLAT TYPE 3

No. of flats = 6
 scale = 1:100
 total area of walkway and staircase = 149.67 sqm
 area of walkway and staircase = 196.74 sqm



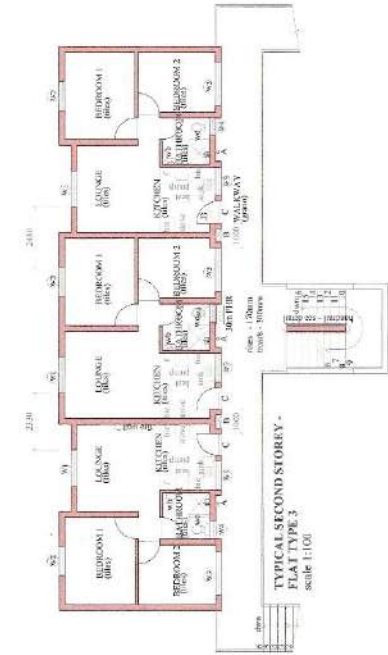
TYPICAL FIRST STOREY - FLAT TYPE 3

scale 1:100



TYPICAL GROUND STOREY - FLAT TYPE 3

scale 1:100



TYPICAL SECOND STOREY - FLAT TYPE 3

scale 1:100

LEGEND

- A - 110mm dia. pre-cast plank
- B - 50mm x 125mm void in section of slab
- C - 100mm x 100mm pre-cast slab
- D - 100mm x 100mm pre-cast slab
- E - 100mm x 100mm pre-cast slab
- F - 100mm x 100mm pre-cast slab
- G - 100mm x 100mm pre-cast slab

THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND ELECTRICAL ENGINEERING DRAWINGS.

DESIGNER: ARCHITECTS
 DRAWN BY: ARCHITECTS

TITLE:
 PROVISION OF ELECTRICAL AND
 MECHANICAL SERVICES FOR
 RESIDENTIAL BUILDING ASSOCIATION.

DRAWING: -
 DIMENSION & GROUND STOREY LAYOUTS
 FIRST & SECOND STOREY LAYOUTS

APPROVAL:
 DATE: 14/06/2018

DESIGNER: ARCHITECTS
 DRAWN BY: ARCHITECTS



DATE: 14/06/2018
 DRAWING NUMBER: 2018/1240
 SHEET 1 OF 3 REV. A

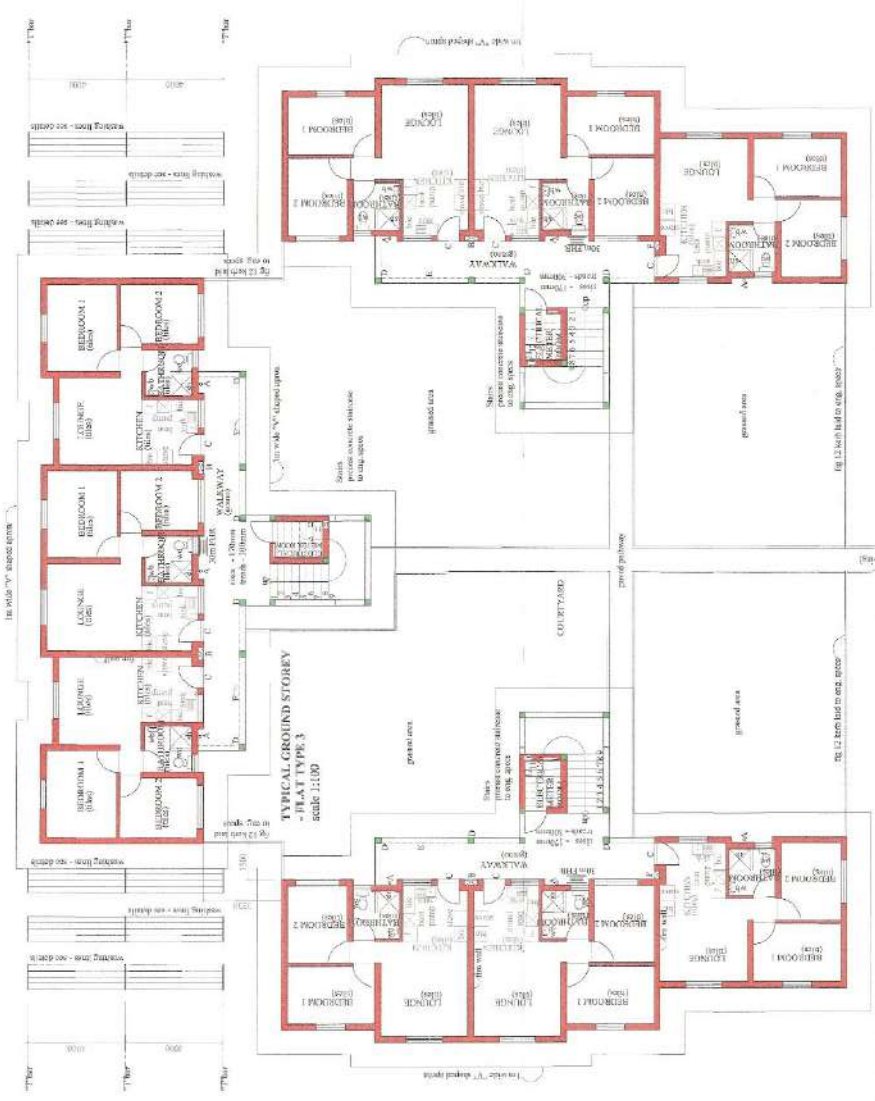


THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS, GENERAL NOTES AND ELECTRICAL SCHEDULES AND SCHEDULES.

REV	DATE	DESCRIPTION

TITLE: PROJECT: WESTGATE SPECIAL HOUSING
 1000 WESTGATE DRIVE, WESTGATE, MI 48186
 DEVELOPER: WESTGATE HOUSING ASSOCIATING
 DRAWING: BLOCK B
 BLOCK II

APPROVAL: [Signature]
 Designer: [Signature]
 Date: 10/15/2018



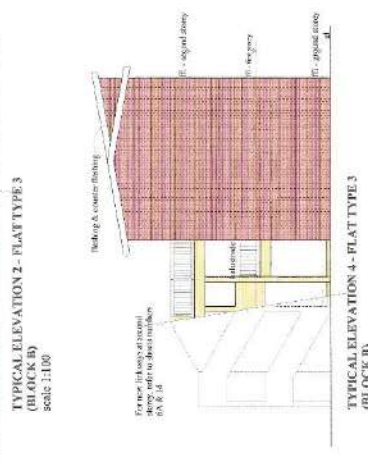
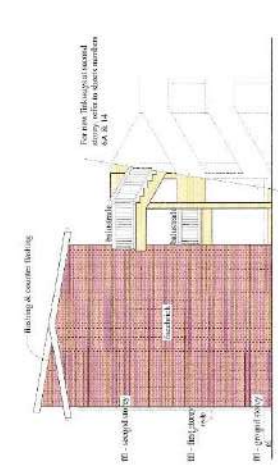
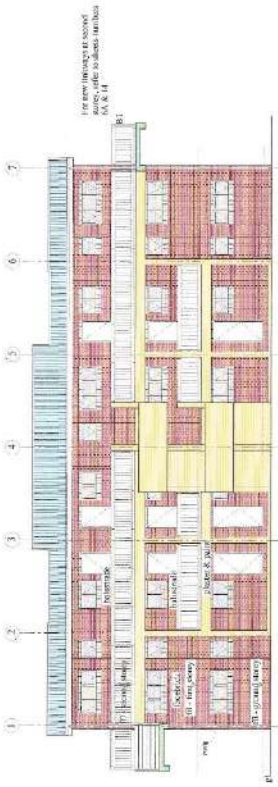
TYPICAL GROUND STOREY - FLAT TYPE 2
 scale 1:100

TYPICAL GROUND STOREY - FLAT TYPE 1
 scale 1:100

NOTE: All dimensions are in millimeters unless otherwise stated.

- LEGEND
- A - 10mm dia. rebar rods
 - B - 20mm x 2.0mm dia. rebar rods
 - C - 17mm dia. rebar rods
 - D - 16mm dia. rebar rods
 - E - 15mm dia. rebar rods
 - F - 12mm x 2.0mm dia. rebar rods

BLOCK B
3 STOREY @ 9 UNITS/STOREY
No OFF - 6
 ALL GRESSED AREAS TO BE CHECKED BY SPECIALIST



THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE GENERAL CONDITIONS AND ELECTRICAL ENGINEERING DRAWINGS.

REV.	DATE	DESCRIPTION
1	14/04/11	Issued for construction

TITLE:
PROPOSED NEW INVESTIGATIONAL HOUSING
FOR THE TOWN OF TONK
PREPARED FOR THE
FOR INDUSTRIAL HOUSING ASSOCIATION.

DRAWING:
ELEVATION - FLAT TYPE 3
ELEVATION - FLAT TYPE 4

APPROVAL:
Checked: [Signature] Date: 14/06/11
Drawn: [Signature] Date: 14/06/11

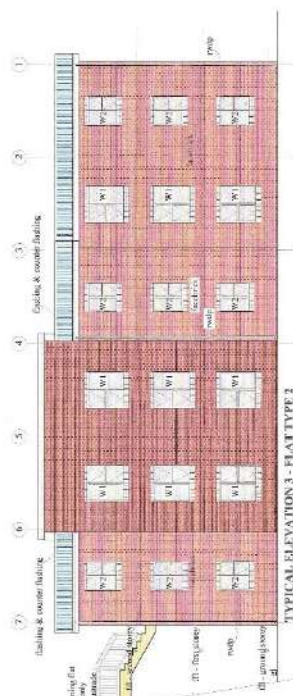
Architectno. GB
17/18, The Quadrant, 12, The Quadrant, Tonk, Derbyshire, Derbyshire, Derbyshire

Architectno. GB
17/18, The Quadrant, 12, The Quadrant, Tonk, Derbyshire, Derbyshire, Derbyshire

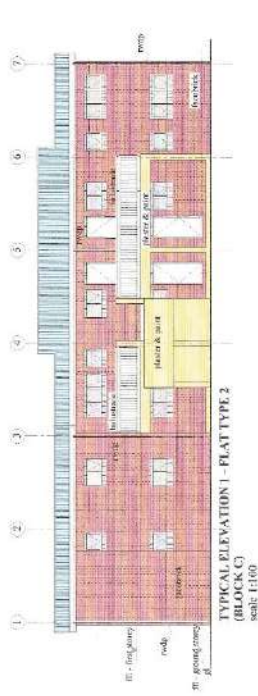
Drawings & Reports
DRAWING NUMBER: 2013/01/06
SHEET 7 of 21



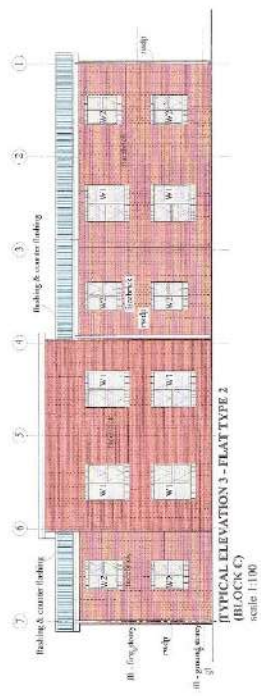
TYPICAL ELEVATION 1 - FLAT TYPE 2
(BLOCKS A, B, D)
scale 1:100



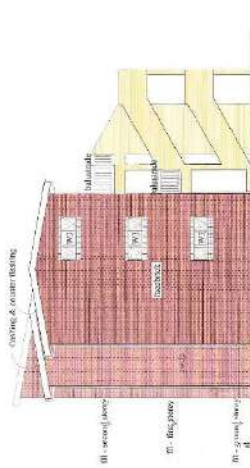
TYPICAL ELEVATION 3 - FLAT TYPE 2
(BLOCKS A, B, D)
scale 1:100



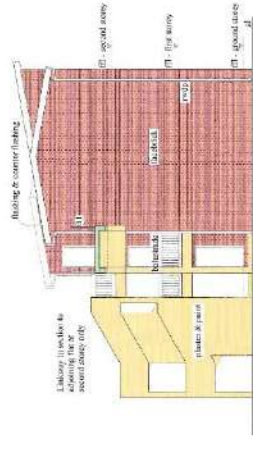
TYPICAL ELEVATION 1 - FLAT TYPE 2
(BLOCK C)
scale 1:100



TYPICAL ELEVATION 3 - FLAT TYPE 2
(BLOCK C)
scale 1:100



TYPICAL ELEVATION 2 - FLAT TYPE 2
(BLOCKS A, B, D)
scale 1:100



TYPICAL ELEVATION 4 - FLAT TYPE 2
(BLOCKS A, B, D)
scale 1:100



TYPICAL ELEVATION 2 - FLAT TYPE 2
(BLOCK C)
scale 1:100



TYPICAL ELEVATION 4 - FLAT TYPE 2
(BLOCK C)
scale 1:100

THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE GENERAL NOTES AND ELECTRICAL ENGINEERING DRAWINGS.

KEY: DATE: 11/08/13
REVISIONS: 1. REVISED TO ADD ENTRY 2.

TITLE: PROVISIONS FOR STATE SPECIAL INSURING
PRELIMINARY ELECTRICAL ENGINEERING
FOR RESIDENTIAL HOUSING ASSOCIATION

DRAWING: ELEVATIONS - FLAT TYPE 2

APPROVAL: [Signature]

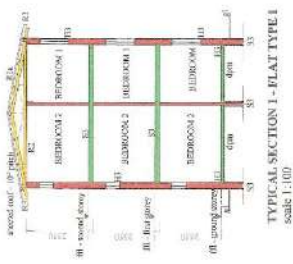
DATE: 11/08/13
SCALE: 1/4\"/>



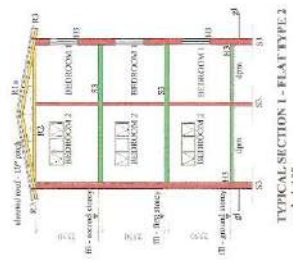
DATE: 11/08/13
SCALE: 1/4\"/>

DATE: 11/08/13
SCALE: 1/4\"/>

DATE: 11/08/13
SCALE: 1/4\"/>



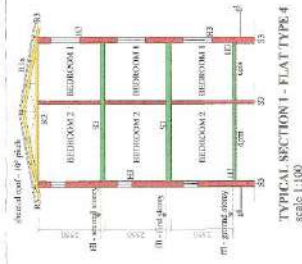
TYPICAL SECTION 1 - FLAT TYPE 1
scale 1:100



TYPICAL SECTION 2 - FLAT TYPE 2
scale 1:100



TYPICAL SECTION 3 - FLAT TYPE 3
scale 1:100



TYPICAL SECTION 4 - FLAT TYPE 4
scale 1:100



TYPICAL SECTION 1 - FLAT TYPE 1
scale 1:100



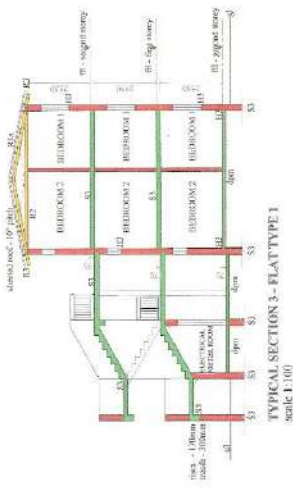
TYPICAL SECTION 2 - FLAT TYPE 2
scale 1:100



TYPICAL SECTION 3 - FLAT TYPE 3
scale 1:100



TYPICAL SECTION 3 - FLAT TYPE 3
scale 1:100



TYPICAL SECTION 3 - FLAT TYPE 1
scale 1:100



TYPICAL SECTION 3 - FLAT TYPE 2
scale 1:100



TYPICAL SECTION 3 - FLAT TYPE 3
scale 1:100

THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE GENERAL NOTES AND SPECIFICATIONS AND RELEVANT BUILDING REGULATIONS.

REV	DATE	DESCRIPTION

TITLE:
PROPOSED NEW RESIDENTIAL SOCIAL HOUSING
PROJECT AT THE UNIVERSITY OF KWAZULU-NATAL
RESIDENTIAL HOUSING ASSOCIATION
DRAWING 1:
SECTION

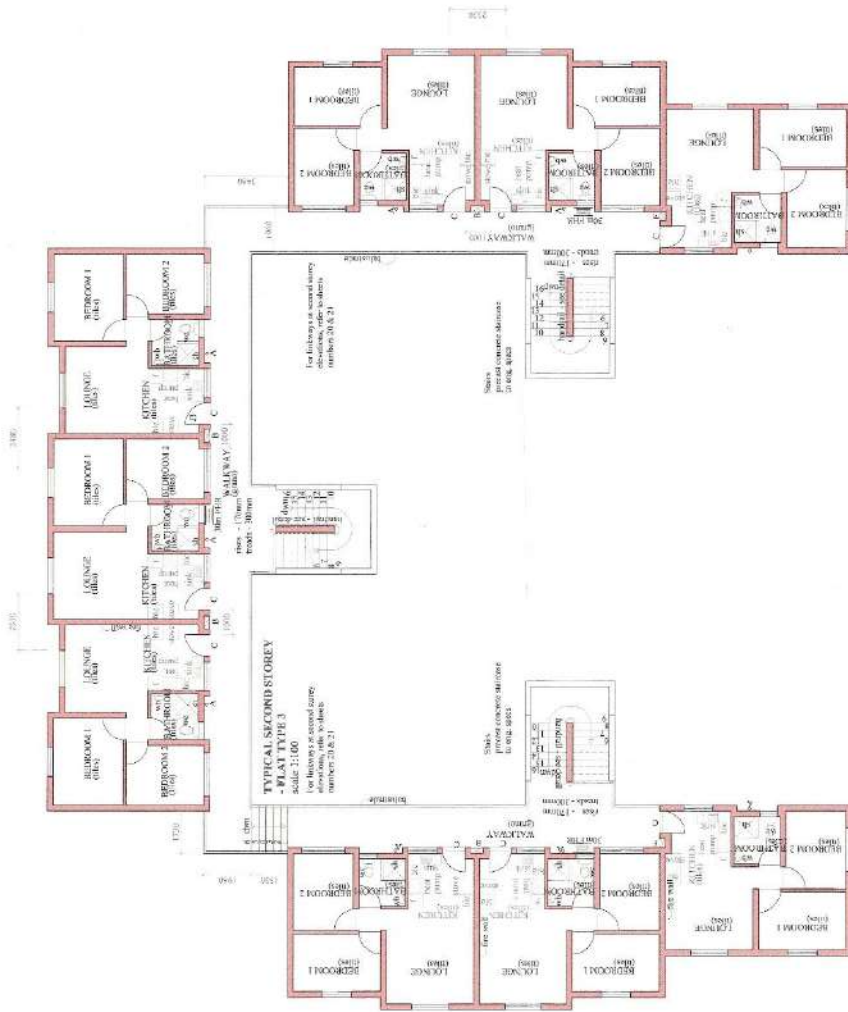
APPROVAL:

DATE: 12/05/2015
DRAWN BY: M. K. M. M.





FOR DETAILS REFER TO ENGINEER'S LAYOUTS
 FOR SCHEDULING & RING MAIN REFER TO ENGINEER'S LAYOUTS
 FOR EMERGENCY WATER DETAILS REFER TO ENGINEER'S LAYOUTS



TYPICAL SECOND STOREY - FLAT TYPE 2
 scale 1:100

TYPICAL SECOND STOREY - FLAT TYPE 2
 scale 1:100

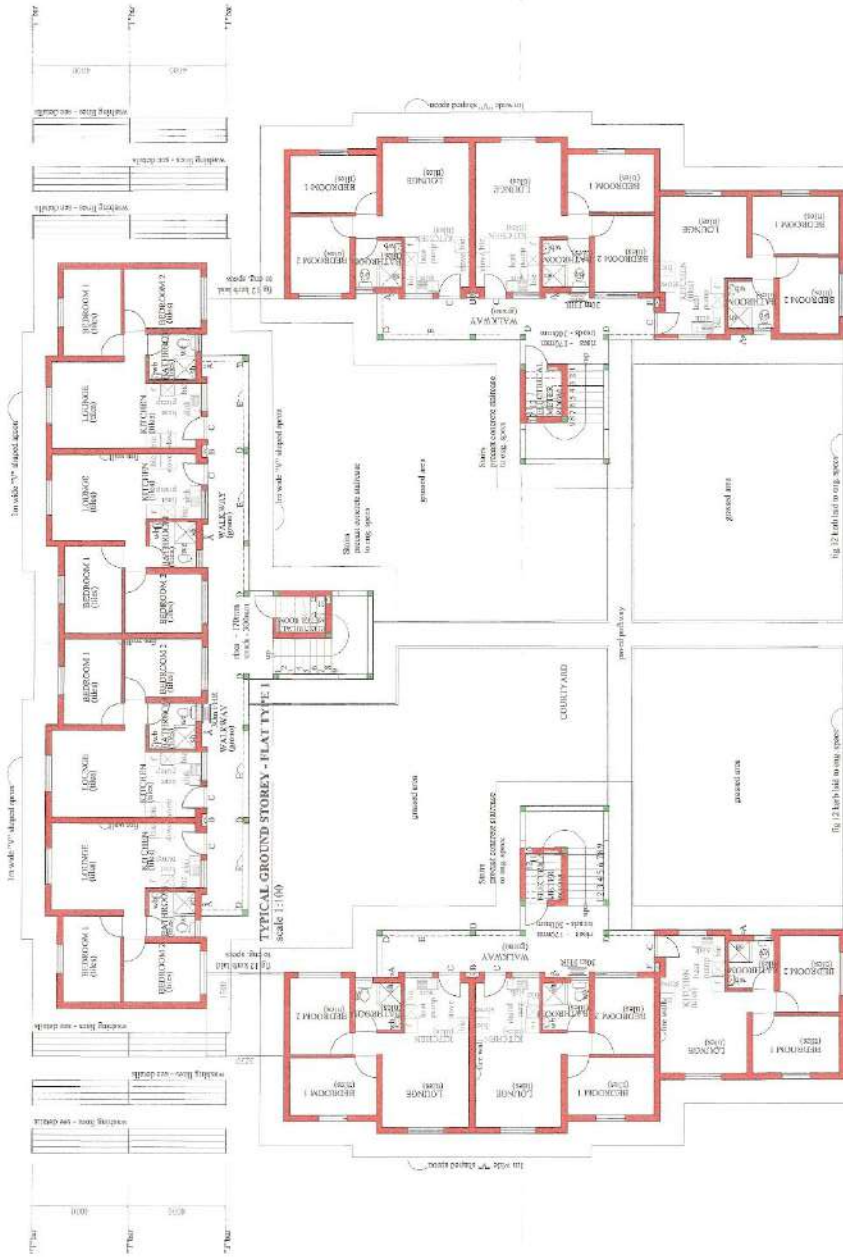
TYPICAL SECOND STOREY
 BLOCK B
 No OFF - 6

REV	DATE	DESCRIPTION

TITLE: PROPOSED NEW MISTAKE SOCIAL HOUSING DEVELOPMENT IN PTN BRT OF SRF 171
 PRELIMINARY ELECTRICAL AND MECHANICAL DRAWINGS
 DRAWING: BLOCK B
 DRAWING NO: 2015/010

APPROVAL: [Signature]
 DESIGNER: [Signature]
 CHECKED: [Signature]
 DRAWN: [Signature]
 DATE: 2015/01/01
 SCALE: AS SHOWN

LEGEND
 A - 10mm dia pipe, show work
 B - 10mm dia pipe, show work for electrical cables
 C - 10mm dia pipe, show work for mechanical cables
 D - 10mm dia pipe, show work for fire alarm cables
 E - 10mm dia pipe, show work for fire alarm cables
 F - 10mm dia pipe, show work for fire alarm cables



TYPICAL GROUND STOREY - FLAT TYPE 1
scale 1:100

TYPICAL GROUND STOREY - FLAT TYPE 2
scale 1:100

NOTES:
1. All dimensions are in millimeters unless otherwise stated.
2. All dimensions are to the center of the element unless otherwise stated.
3. All dimensions are to the face of the element unless otherwise stated.
4. All dimensions are to the center of the element unless otherwise stated.

BLOCK C
2 STOREY @ 10 UNITS/STOREY
NO. OFF - 2
ALL DIMENSIONS ARE TO BE ACCURATE BY SPECIFIER

LEGEND
A - 100mm thick concrete slab
B - 100mm thick concrete slab
C - 100mm thick concrete slab
D - 100mm thick concrete slab
E - 100mm thick concrete slab
F - 100mm thick concrete slab

REV	DATE	DESCRIPTION

TITLE:
TYPICAL GROUND STOREY - FLAT TYPE 1
TYPICAL GROUND STOREY - FLAT TYPE 2
FOR BLOCK C
DRAWING NO. 1000-00

APPROVALS:
DESIGNER: [Signature]
CHECKED: [Signature]
DATE: 11/11/2014

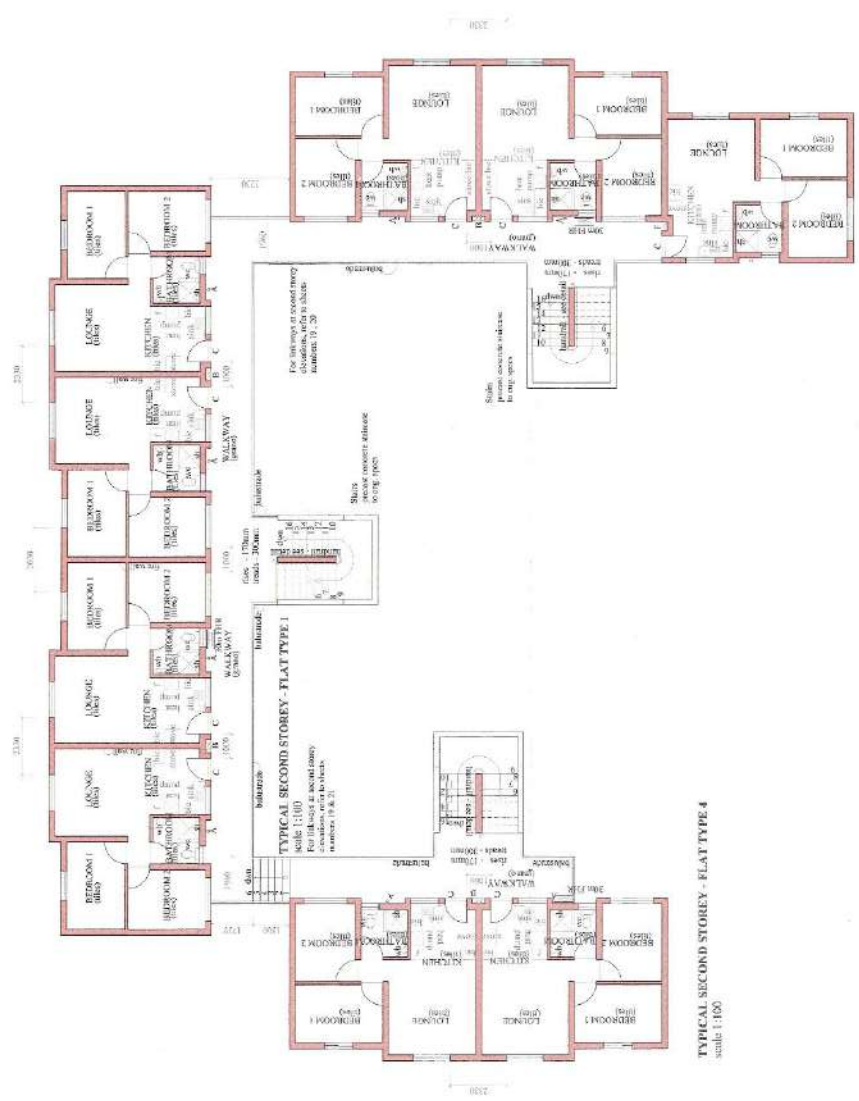
Professional Engineer
No. 44661/3
Date: 2014-15

Professional Engineer
No. 44661/3
Date: 2014-15

Professional Engineer
No. 44661/3
Date: 2014-15



FOR STORM WATER DETAILS REFER TO ENGINEERS LAYOUTS
 FOR SEWER DETAILS REFER TO ENGINEERS LAYOUTS
 FOR ELECTRICAL DETAILS REFER TO ELECTRICAL LAYOUTS
 FOR EMERGENCY WATER DETAILS REFER TO ENGINEERS LAYOUTS



TYPICAL SECOND STOREY - FLAT TYPE 2
 scale 1:100

TYPICAL SECOND STOREY - FLAT TYPE 4
 scale 1:100

TYPICAL SECOND STOREY
 BLOCK D
 No OFF - 2

THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE GENERAL CONTRACT DOCUMENTS AND ELECTRICAL SCHEDULES AND SPECIFICATIONS.

NO.	DATE	DESCRIPTION

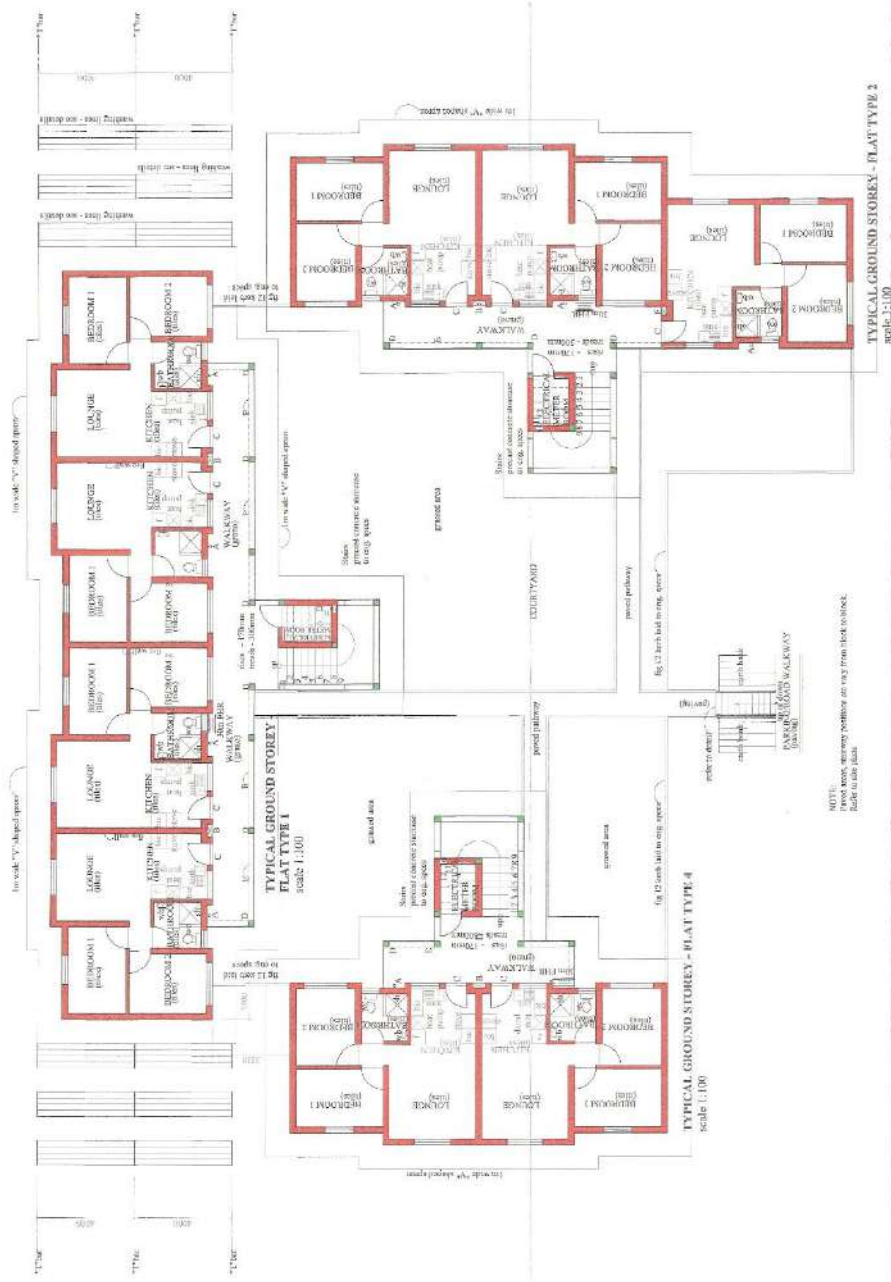
TITLE :
 PROPOSED NEW INTEGRATED SERIAL HOUSING
 PROJECT AT KALAMATI, 1ST STAGE OF THE 1ST
 PHASE, HOUSING DEVELOPMENT
 FOR HOUSING HOUSING ASSOCIATION.
 DRAWING :
 BLOCK D

APPROVAL:
 DESIGNER: [Signature]
 CHECKED: [Signature]
 DATE: 19/04/2014
 DRAWN BY: [Signature]



- LEGEND
- A - 100mm dia. rim cover tank
 - B - 50mm x 25mm void for Aerial cables
 - C - 100mm dia. pipe
 - D - 100mm dia. pipe
 - E - 100mm dia. pipe
 - F - 100mm dia. pipe
 - G - 100mm dia. pipe

DRAWING NUMBER: 2012/002
 SHEET 8 OF 13



BLOCK D
3 STOREY @ 9 UNITS/STOREY
NO. OFF - 2
 ALL GRASSED AREAS TO BE SPECIFIED BY SPECIALIST

THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS, CONTRACT AND ALL RELEVANT STATUTORY REGULATIONS.

REV	DATE	DESCRIPTION

TITLE:
 PROPOSED NEW RESIDENTIAL HOUSING
 PETERMETSBERG
 FOR THE HOUSING HOUSING ASSOCIATION.

DRAWING:
 SECTION

APPROVAL:

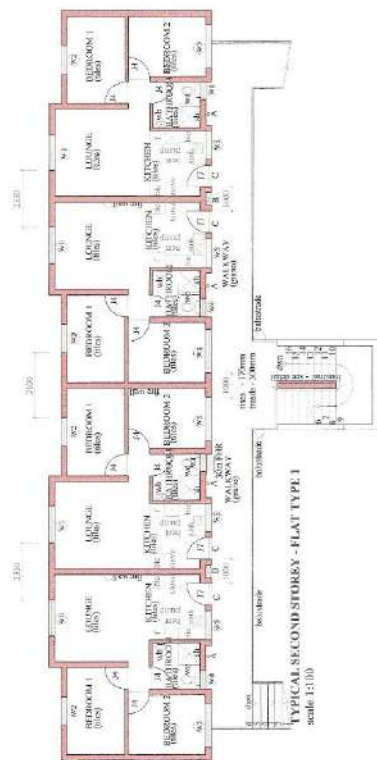
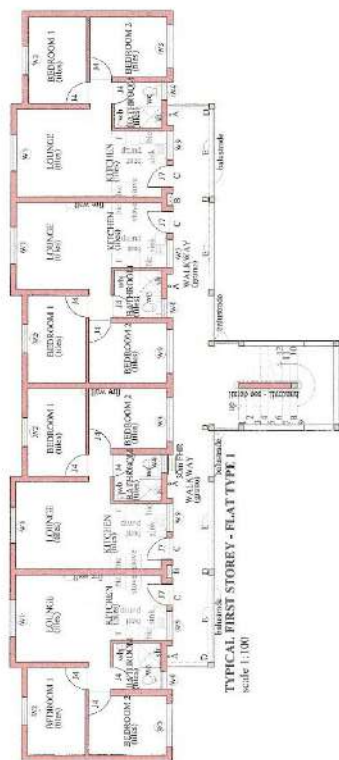
Drawn By: [Signature] Date: [Date] Rev: [Rev]
 Checked By: [Signature] Date: [Date] Rev: [Rev]



LEGEND

A - 1:100000 400 grid every 100m
 B - 20mm x 20mm grid for structural columns
 C - 20mm x 20mm grid for structural columns
 D - 100mm x 100mm grid for structural columns
 E - 100mm x 100mm grid for structural columns
 F - 200mm x 200mm grid for structural columns

PROJECT NO: [Number]
 DRAWING NO: [Number]
 SHEET NO: [Number]



- LEGEND**
- A - 100mm dia pipe cover slab.
 - B - 50mm x 25mm void for corner of the column.
 - C - 100mm concrete slab.
 - D - 100mm concrete slab.
 - E - 100mm concrete slab.
 - F - 100mm x 25mm void for external of the column.

THESE DRAWINGS TO BE REBORN CONSTRUCTION
DRAWINGS FOR ELECTRICAL AND
MECHANICAL ENGINEERING DRAWINGS.

DATE: 2014
DESCRIPTION: 2014
DRAWING NO: 2014

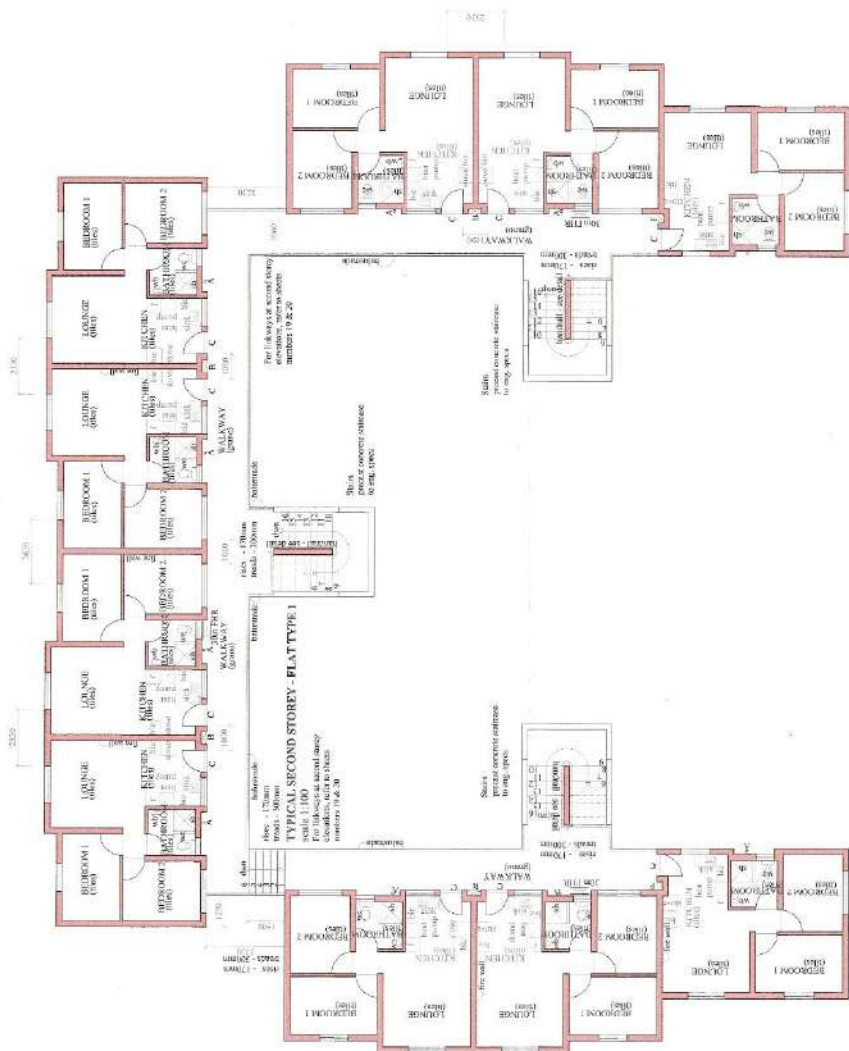
TITLE: TYPICAL FIRST & SECOND STOREY LAYOUTS
PROPOSED NEW APARTMENT BLOCK, BEISING
PROJECT (PART 2) (REV. 1/17)
FOR ANSHI HOLDING ASSOCIATION.

APPROVALS:
DESIGNER: [Signature]
CHECKER: [Signature]
DATE: 15/03/2014





FOR STOREY AND DETAILS REFER TO ENGINEERS LAYOUTS
 FOR SEWER DETAILS REFER TO ENGINEERS LAYOUTS
 FOR ELECTRICAL AND PIPING DETAILS REFER TO ENGINEERS LAYOUTS
 FOR EMBROIDERY WORK DETAILS REFER TO ENGINEERS LAYOUTS



TYPICAL SECOND STOREY - FLAT TYPE 2
 scale 1:100

TYPICAL SECOND STOREY - FLAT TYPE 2
 scale 1:100

TYPICAL SECOND STOREY
 BLOCK A
 No OFF - 22

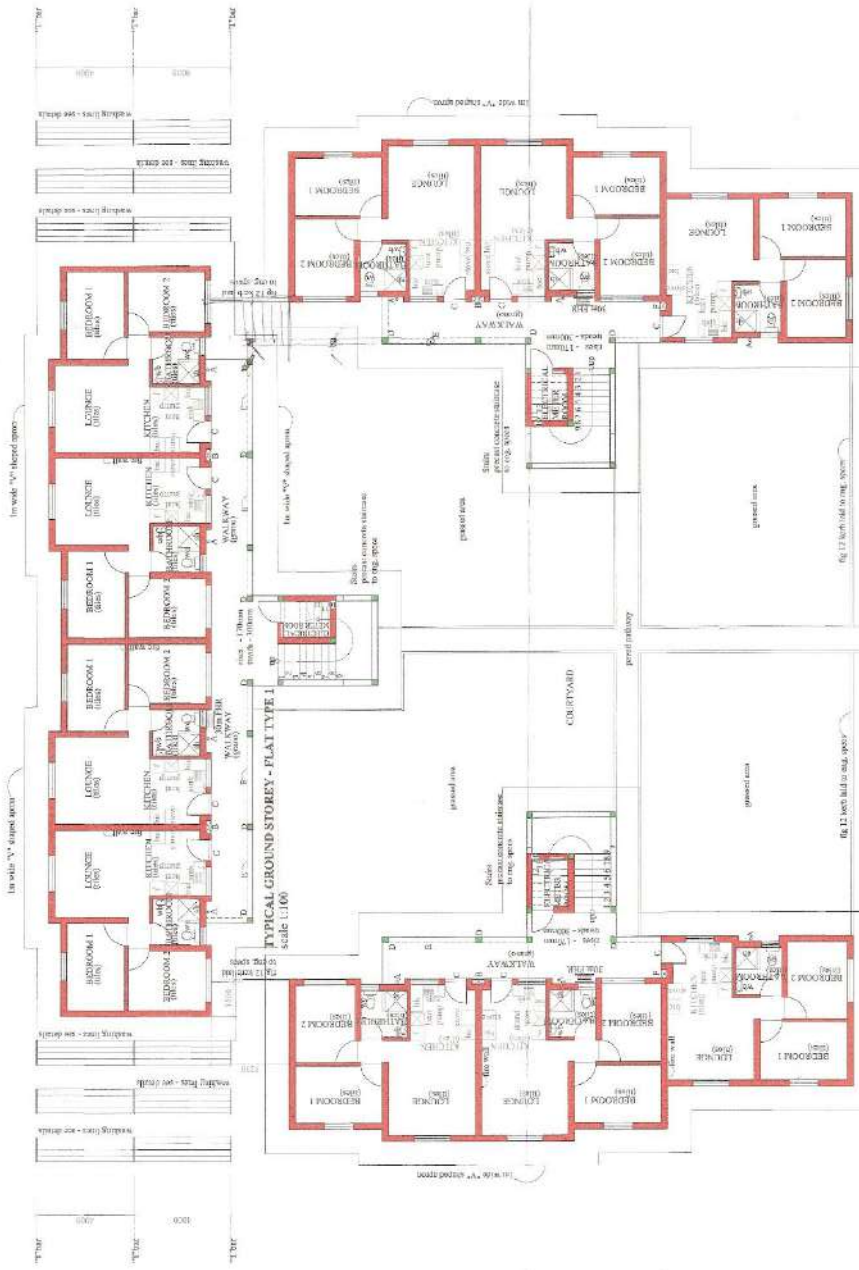
LEGEND
 A - 10mm dia concrete slab
 B - 10mm x 25mm void for normal cast
 C - 10mm wall strip
 D - 10mm concrete slab
 E - 10mm x 25mm void for floor slabs

THESE DRAWINGS TO BE READ IN CONJUNCTION
 WITH ALL RELATIVE STRUCTURAL AND
 MECHANICAL ENGINEERING DRAWINGS.

REV	DATE	DESCRIPTION

TITLE :
 PROPOSED NEW INVESTIGATIONAL SOCIAL HOUSING
 PROJECTS FOR THE PEOPLE OF THE CITY
 FOR RESEARCHING ASSOCIATION.
 DRAWING :
 BLOCK A

APPROVAL :
 Drawn : [Signature] Date : 2014/11/14
 Checked : [Signature] Scale : as shown
Architects, CC
 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



TYPICAL GROUND STOREY - FLAT TYPE 2
scale 1:100

TYPICAL GROUND STOREY - FLAT TYPE 1
scale 1:100

TYPICAL GROUND STOREY - FLAT TYPE 2
scale 1:100

NOTE: All dimensions are in millimeters unless otherwise stated.
Refer to site plan.

- LEGEND
- A - 110mm dia. rebar mesh
 - B - 20mm x 250mm void for electrical cables
 - C - 100mm x 100mm x 100mm concrete block
 - D - 100mm x 100mm x 100mm concrete block
 - E - 100mm x 100mm x 100mm concrete block
 - F - 100mm x 100mm x 100mm concrete block

THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND CONDITIONS OF CONTRACT AND ALL APPLICABLE BUILDING REGULATIONS.

REV	DATE	DESCRIPTION

TITLE :
 3 STOREY @ 10 UNITS/STOREY
 NO OFF - 22
 PRELIMINARY
 FOR SUBMITTING TO THE LOCAL AUTHORITY FOR APPROVAL

DRAWING BLOCK :
 APPROVAL :

Drawn by :
 Checked by :
 Date :
 Project :



Scale: 1:100
 Drawing Number: 2014/02
 Sheet: 1 of 3

BLOCK A
3 STOREY @ 10 UNITS/STOREY
NO OFF - 22
 ALL DIMENSIONS TO BE SPECIFIED BY SPECIMAT



TYPICAL SECTION THROUGH FLAT TYPE 2
SHOWING SEWER ELEVATION
(BLOCKS A, R, D)
Scale 1:100



TYPICAL SECTION THROUGH FLAT TYPE 2
SHOWING SEWER ELEVATION
(BLOCK C)
Scale 1:100



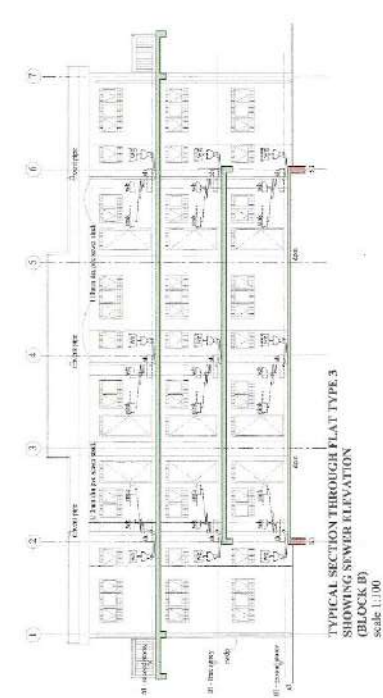
TYPICAL SECTION THROUGH FLAT TYPE 1
SHOWING SEWER ELEVATION
(BLOCKS A, D, E)
Scale 1:100



TYPICAL SECTION THROUGH FLAT TYPE 1
SHOWING SEWER ELEVATION
(BLOCK C)
Scale 1:100



TYPICAL SECTION THROUGH FLAT TYPE 4
SHOWING SEWER ELEVATION
(BLOCK D & E)
Scale 1:100



TYPICAL SECTION THROUGH FLAT TYPE 3
SHOWING SEWER ELEVATION
(BLOCK B)
Scale 1:100

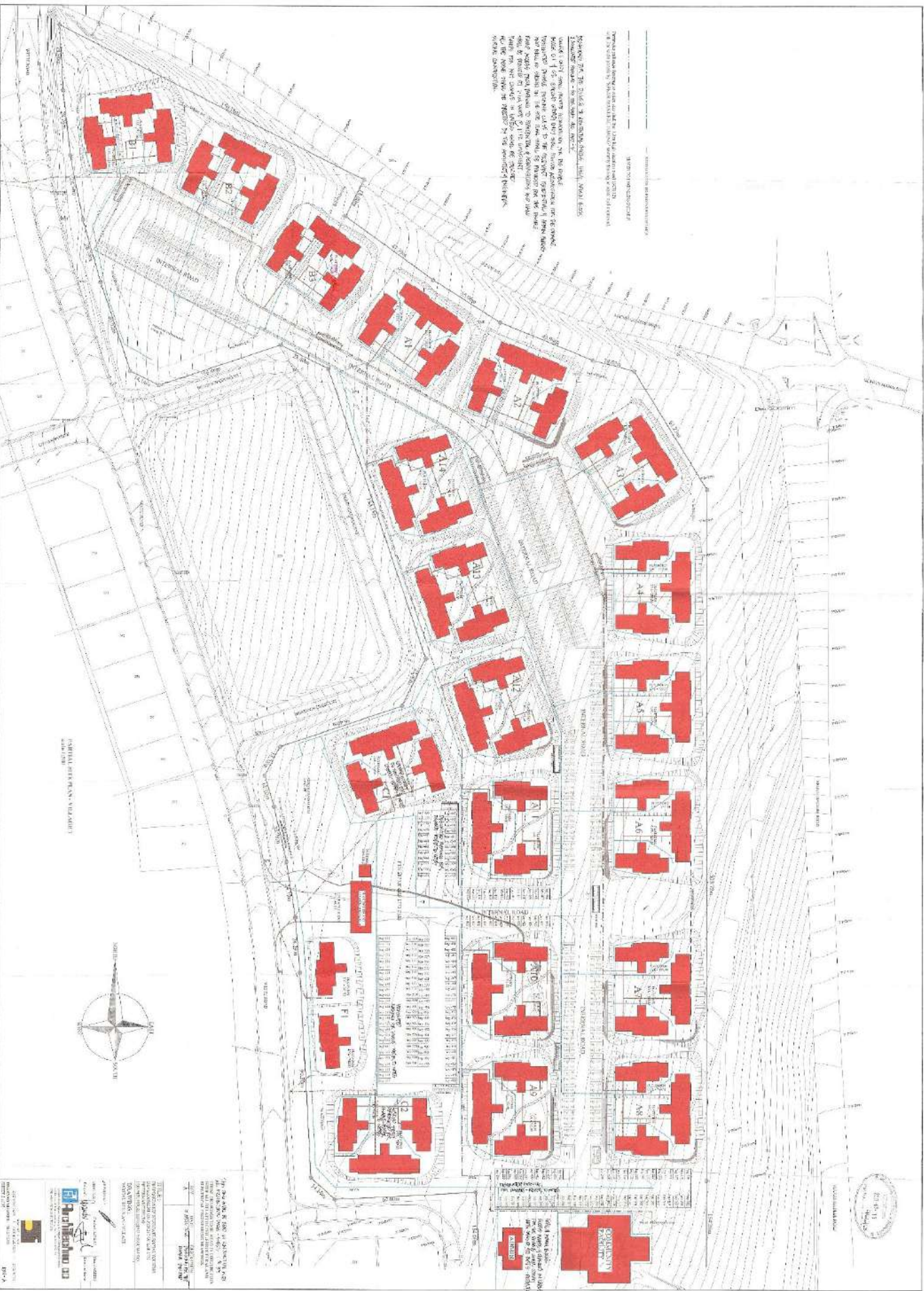
THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE GENERAL NOTES AND ELECTRICAL ENGINEERING DRAWINGS.

REV. DATE DESCRIPTION
A. 11/02/14. 1. REVISIONS TO ELECTRICAL

TITLE:
WORKSHEET NO. STATE SCALE, DRAINING
PROJECT NAME, SHEET NO. OF SHEETS
FOR SUBMITTING ADOPTION
DRAWING:
SECTION SHOWING SEWER ELEVATIONS

APPROVAL:
Drawn By: [Signature] Date: 10/20/20
Checked By: [Signature] Scale: as noted
Project: [Signature]

Architect: [Signature]
CONTRACT NO. 15-00000000000000000000
DRAWING NUMBER: 3021202
SHEET NO. 21



THE PLAN IS THE PROPERTY OF THE ARCHITECT AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT. THE ARCHITECT'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED AND DOES NOT EXTEND TO THE CONSTRUCTION OF THE PROJECT OR TO THE PERFORMANCE OF THE CONTRACTOR. THE ARCHITECT IS NOT RESPONSIBLE FOR THE ACCURACY OF THE SURVEY DATA OR THE LEGAL DESCRIPTION OF THE PROPERTY. THE ARCHITECT'S SERVICES ARE LIMITED TO THE DESIGN AND DOCUMENTATION OF THE PROJECT AND DO NOT INCLUDE THE OBTAINING OF PERMITS OR THE CONSTRUCTION OF THE PROJECT. THE ARCHITECT'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED AND DOES NOT EXTEND TO THE CONSTRUCTION OF THE PROJECT OR TO THE PERFORMANCE OF THE CONTRACTOR. THE ARCHITECT IS NOT RESPONSIBLE FOR THE ACCURACY OF THE SURVEY DATA OR THE LEGAL DESCRIPTION OF THE PROPERTY. THE ARCHITECT'S SERVICES ARE LIMITED TO THE DESIGN AND DOCUMENTATION OF THE PROJECT AND DO NOT INCLUDE THE OBTAINING OF PERMITS OR THE CONSTRUCTION OF THE PROJECT.

CAPITAL STEEL COMPANY



PROJECT: [Project Name]
 ARCHITECT: [Firm Name]
 DATE: [Date]
 SCALE: [Scale]
 SHEET NO. [Number] OF [Total]



NO.	DESCRIPTION	AREA (SQ. FT.)	VOLUME (CU. YD.)
1	Excavation	10,000	10,000
2	Foundation	20,000	20,000
3	Structure	100,000	100,000
4	Roofing	100,000	100,000
5	Interior Finishes	100,000	100,000
6	Exterior Finishes	100,000	100,000
7	Landscaping	100,000	100,000
8	Utilities	100,000	100,000
9	Drainage	100,000	100,000
10	Site Work	100,000	100,000



SYMBOL	DESCRIPTION	QUANTITY	UNIT	REMARKS
1	FOUNDATION OF GROUND			
2	CONCRETE SURFACE BED			
3	FLORIS TILES			
4	IMBEDDING TILES			
5	BLANK BACK WHITE GLASS TILES			
6	PLASTER & PAINT			
7	WALL TILES			
8	PAINT BRICK EXTERIOR BOND			
9	INTERNAL			
10	EXTERNAL			
11	CEILING INSULATION-GLASS BLOCKS ETC			
12	CEILING INSULATION-GLASS			
13	CEILING			
14	CORNER			
15	WASH TROUGH			
16	INTERNAL			
17	WC			
18	SINK			
19	WIP			
20	HEAT PUMP			
21	GLASS WINDOW			
22	SOFT ROOF			
23	TOTILE ROOF INSULATION			
24	INSULATED GLASS WINDOW			

SYMBOL	DESCRIPTION	QUANTITY	UNIT	REMARKS
25	FOUNDATION OF GROUND			
26	CONCRETE SURFACE BED			
27	FLORIS TILES			
28	IMBEDDING TILES			
29	BLANK BACK WHITE GLASS TILES			
30	PLASTER & PAINT			
31	WALL TILES			
32	PAINT BRICK EXTERIOR BOND			
33	INTERNAL			
34	EXTERNAL			
35	CEILING INSULATION-GLASS BLOCKS ETC			
36	CEILING INSULATION-GLASS			
37	CEILING			
38	CORNER			
39	WASH TROUGH			
40	INTERNAL			
41	WC			
42	SINK			
43	WIP			
44	HEAT PUMP			
45	GLASS WINDOW			
46	SOFT ROOF			
47	TOTILE ROOF INSULATION			
48	INSULATED GLASS WINDOW			

REVISIONS: 1. Change wall tile to blank and remove wall tile. 2. Change concrete surface bed to 4" thick. 3. Change floor tile to 12" x 12" x 1/2". 4. Change wall tile to 12" x 12" x 1/2". 5. Change plaster and paint to 1/2" thick. 6. Change wall tile to 12" x 12" x 1/2". 7. Change wall tile to 12" x 12" x 1/2". 8. Change wall tile to 12" x 12" x 1/2". 9. Change wall tile to 12" x 12" x 1/2". 10. Change wall tile to 12" x 12" x 1/2".

REVISIONS: 1. Change wall tile to blank and remove wall tile. 2. Change concrete surface bed to 4" thick. 3. Change floor tile to 12" x 12" x 1/2". 4. Change wall tile to 12" x 12" x 1/2". 5. Change plaster and paint to 1/2" thick. 6. Change wall tile to 12" x 12" x 1/2". 7. Change wall tile to 12" x 12" x 1/2". 8. Change wall tile to 12" x 12" x 1/2". 9. Change wall tile to 12" x 12" x 1/2". 10. Change wall tile to 12" x 12" x 1/2".

REVISIONS: 1. Change wall tile to blank and remove wall tile. 2. Change concrete surface bed to 4" thick. 3. Change floor tile to 12" x 12" x 1/2". 4. Change wall tile to 12" x 12" x 1/2". 5. Change plaster and paint to 1/2" thick. 6. Change wall tile to 12" x 12" x 1/2". 7. Change wall tile to 12" x 12" x 1/2". 8. Change wall tile to 12" x 12" x 1/2". 9. Change wall tile to 12" x 12" x 1/2". 10. Change wall tile to 12" x 12" x 1/2".

REVISIONS: 1. Change wall tile to blank and remove wall tile. 2. Change concrete surface bed to 4" thick. 3. Change floor tile to 12" x 12" x 1/2". 4. Change wall tile to 12" x 12" x 1/2". 5. Change plaster and paint to 1/2" thick. 6. Change wall tile to 12" x 12" x 1/2". 7. Change wall tile to 12" x 12" x 1/2". 8. Change wall tile to 12" x 12" x 1/2". 9. Change wall tile to 12" x 12" x 1/2". 10. Change wall tile to 12" x 12" x 1/2".

APPROVAL: _____
DATE: 11/15/2011

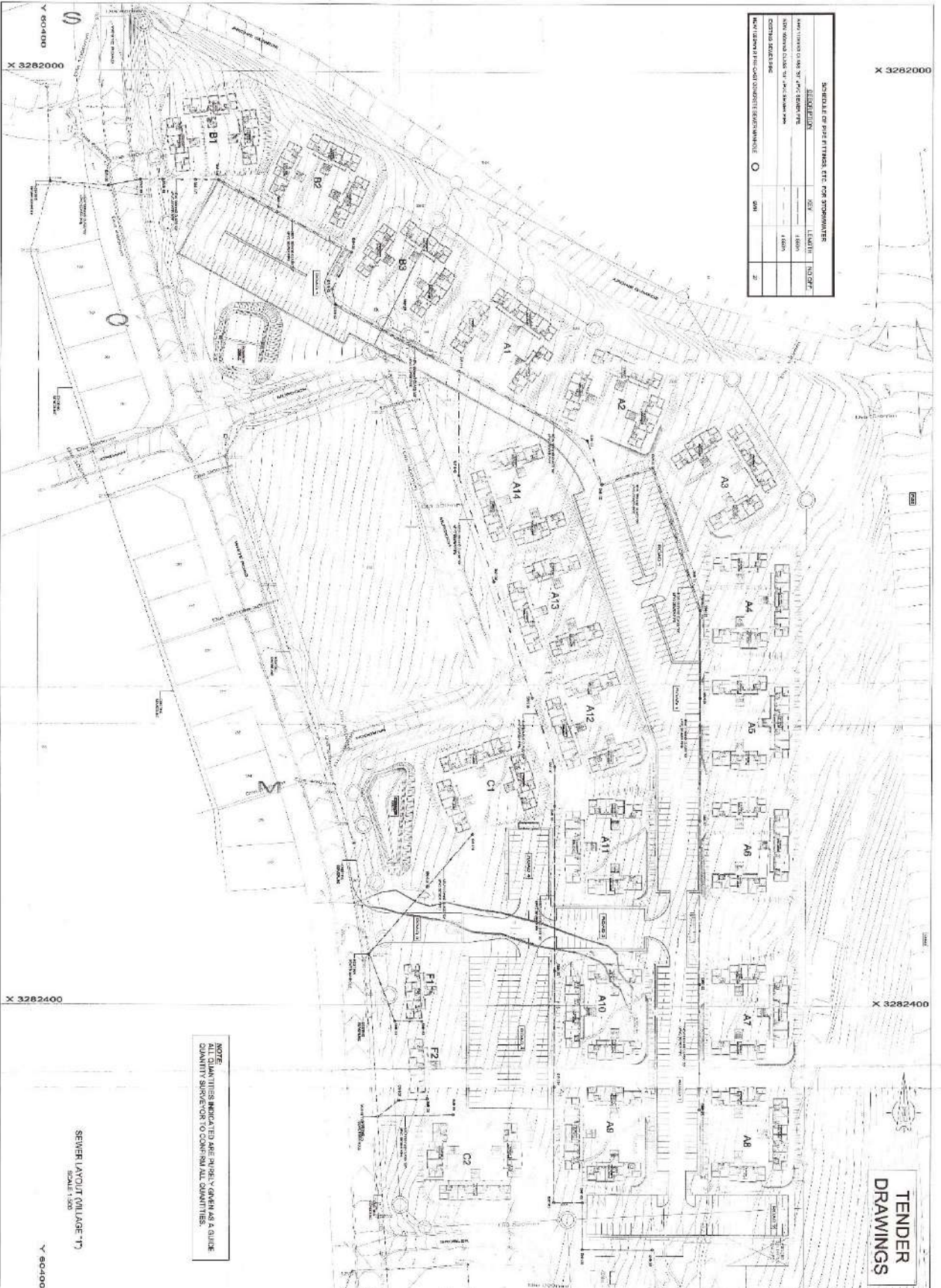


TENDER DRAWINGS

NO.	DESCRIPTION
1	SEWER LAYOUT
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X 3282000

SCHEDULE OF PIPE FITTINGS, ETC. FOR APPROXIMATE			
DESCRIPTION	NO. OF	LENGTH	NO. OF FT.
NEW 12" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
NEW 10" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
EXISTING 12" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
EXISTING 10" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
NEW 8" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
EXISTING 8" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
NEW 6" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
EXISTING 6" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
NEW 4" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
EXISTING 4" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
NEW 3" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
EXISTING 3" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
NEW 2" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
EXISTING 2" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
NEW 1" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250
EXISTING 1" DIA. 15' DIA. 15' DIA. 15'	150	1500	2250



TENDER DRAWINGS

NOTE: QUANTITIES INDICATED ARE IN RELY GEN. AS A GUIDE QUANTITY SUPERVISOR TO CONFIRM ALL QUANTITIES.

SEWER LAYOUT (PACKAGE 77)
SCALE: 1/8" = 1'-0"

Y 803400

DATE: 11/11/2023
TIME: 10:11:11 AM
PROJECT: VILLAGE 77
DRAWING: SEWER LAYOUT (PACKAGE 77)
SCALE: 1/8" = 1'-0"

NOTES:

1. ALL DIMENSIONS TO BE INDICATED WITH REFERENCE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS TO BE INDICATED WITH REFERENCE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS TO BE INDICATED WITH REFERENCE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS TO BE INDICATED WITH REFERENCE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
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8. ALL DIMENSIONS TO BE INDICATED WITH REFERENCE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS TO BE INDICATED WITH REFERENCE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS TO BE INDICATED WITH REFERENCE TO THE CENTERLINE UNLESS OTHERWISE NOTED.

PREBEN HANCOCK & ASSOCIATES
2000 BROADWAY SUITE 200
P.O. BOX 200
LAWRENCE, MA 01840
TEL: 978.681.1234
FAX: 978.681.1235
WWW.PREBENHANCOCK.COM

PROJECT: VILLAGE 77
CLIENT: AS BUCHANAN
DATE: 11/11/2023
TIME: 10:11:11 AM
PROJECT NO.: P1012628301
DRAWING NO.: 0

NOTES:

- 1) ALL SETTING OUT DETAILS TO BE CHECKED AND CONFIRMED ON SITE
- 2) ANY SERVICES TO BE RELOCATED WHERE IN CONSULTATION WITH THE SERVICE OWNERS PRIOR TO ORDERING OF PIPES
- 3) LENGTHS OF PIPE TO BE CONFIRMED ON SITE PRIOR TO ORDERING OF PIPES
- 4) MINIMUM COVER OF 500mm FOR ALL PIPES
- 5) MINIMUM GRADIENT OF PIPE, 1:100mm, TO BE 1:100
- 6) MINIMUM GRADIENT OF PIPE, 1:100mm, TO BE 1:14
- 7) ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

REV. NO.	DESCRIPTION



PREBEN NAIDOO & ASSOCIATES
 CONSULTING CIVIL AND STRUCTURAL ENGINEERS
 P. O. BOX 539
 Pleasanton
 Pleasanton, CA 94566
 Tel. No. 422 (0253) 342 2705
 Fax No. 422 (0253) 342 84 50
 E-mail address: prebena@prebena.com.au

DESIGNED BY	P. Naidoo	CHECKED BY	P. Naidoo
DRAWN BY	S. Govender	DATE	12/12
DATE	12/12	PROJECT	PO 1248

WESTGATE HOUSING DEVELOPMENT (GRANGE)

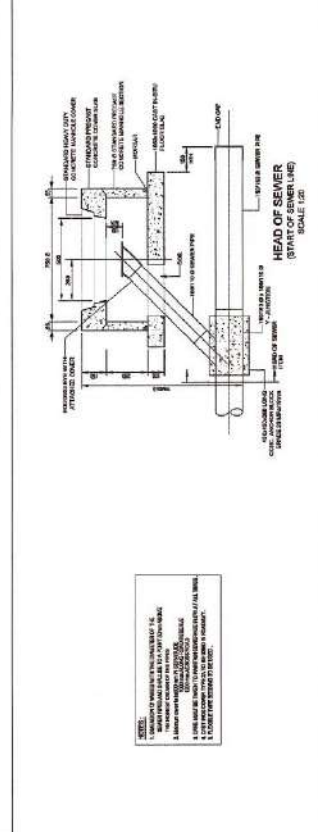
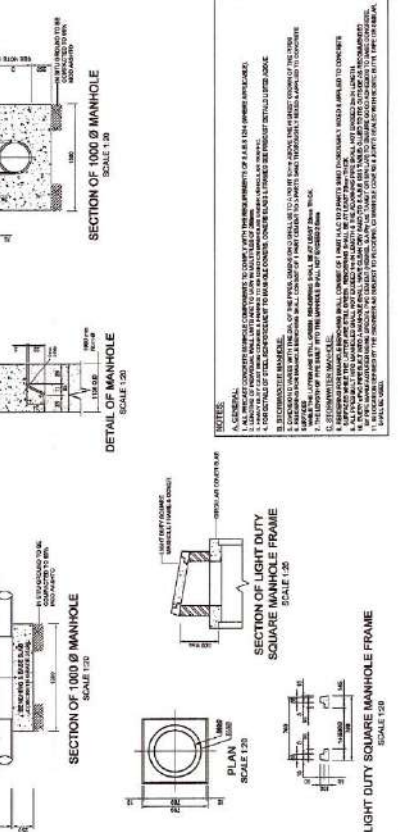
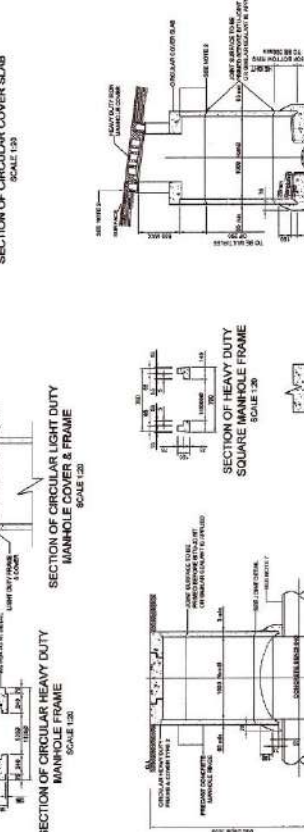
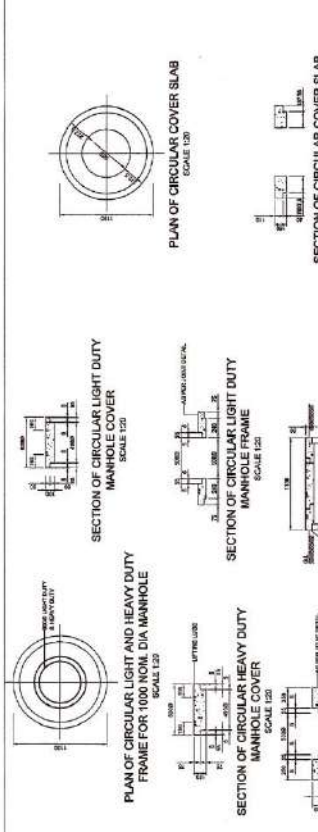
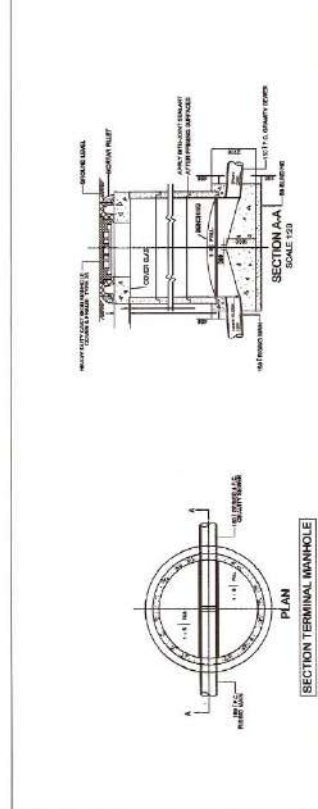
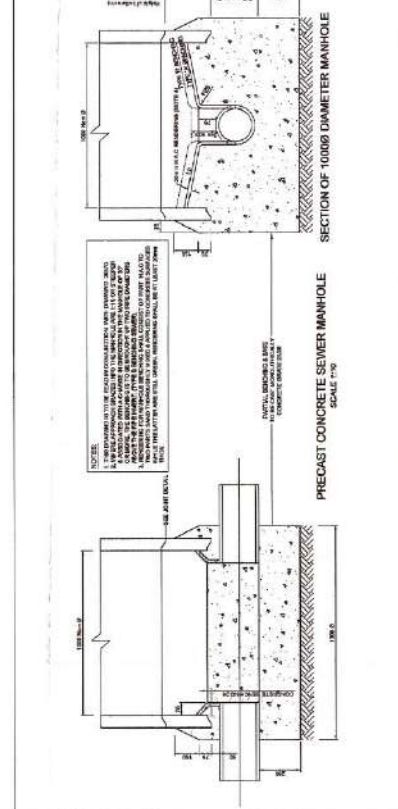
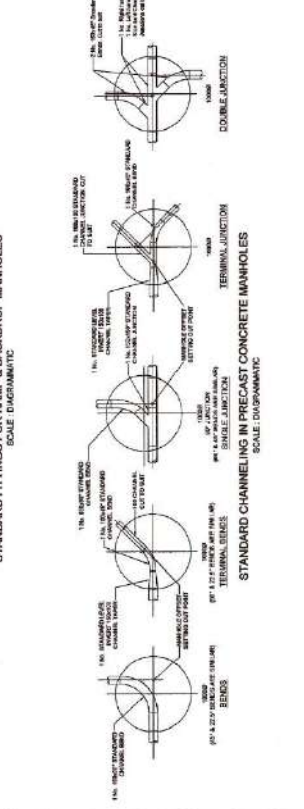
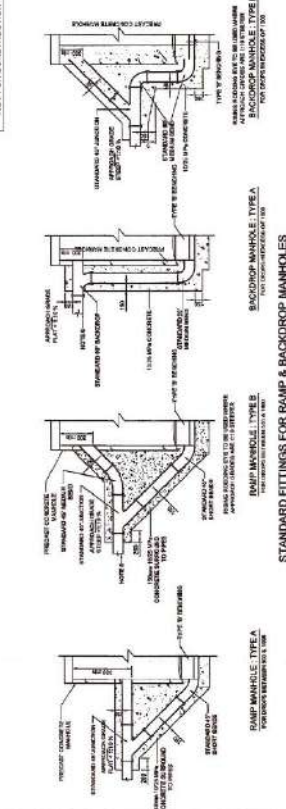
SEWER INFRASTRUCTURE: STANDARD DETAILS

AS SHOWN

PO 1248/0208

0

FOR COSTING PURPOSES ONLY, NOT FOR CONSTRUCTION



NOTES:

1. GENERAL: ALL CONCRETE MANHOLE COMPONENTS TO CONFORM WITH THE REQUIREMENTS OF A.S. 1384 (SEWER MANHOLES).
2. MANHOLE: ALL MANHOLES SHALL BE CONSTRUCTED TO A MINIMUM COVER OF 500mm UNLESS OTHERWISE SPECIFIED.
3. COVER: ALL COVERS SHALL BE CONSTRUCTED TO A MINIMUM COVER OF 50mm UNLESS OTHERWISE SPECIFIED.
4. JOINTS: ALL JOINTS SHALL BE CONSTRUCTED TO A MINIMUM COVER OF 50mm UNLESS OTHERWISE SPECIFIED.
5. FINISH: ALL FINISHES SHALL BE TO THE SATISFACTION OF THE ENGINEER.
6. DIMENSIONS: ALL DIMENSIONS SHALL BE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
7. MATERIALS: ALL MATERIALS SHALL BE OF THE HIGHEST QUALITY AVAILABLE.
8. FOUNDATIONS: ALL FOUNDATIONS SHALL BE CONSTRUCTED TO A MINIMUM COVER OF 50mm UNLESS OTHERWISE SPECIFIED.
9. PROTECTION: ALL MANHOLES SHALL BE PROTECTED AGAINST COLLISION AND DAMAGE.
10. IDENTIFICATION: ALL MANHOLES SHALL BE IDENTIFIED BY A SIGN OR MARKING.
11. INSULATION: ALL MANHOLES SHALL BE INSULATED TO PREVENT FROST DAMAGE.
12. FINISHES: ALL FINISHES SHALL BE TO THE SATISFACTION OF THE ENGINEER.
13. PROTECTION: ALL MANHOLES SHALL BE PROTECTED AGAINST COLLISION AND DAMAGE.
14. IDENTIFICATION: ALL MANHOLES SHALL BE IDENTIFIED BY A SIGN OR MARKING.
15. INSULATION: ALL MANHOLES SHALL BE INSULATED TO PREVENT FROST DAMAGE.
16. FINISHES: ALL FINISHES SHALL BE TO THE SATISFACTION OF THE ENGINEER.

TENDER DRAWINGS

- NOTES:**
- 1) ALL SETTING OUT DETAILS TO BE CHECKED AND CONFIRMED ON SITE
 - 2) ANY SERVICES TO BE RELOCATED WHERE NECESSARY IN CONSULTATION WITH THE SERVICE OWNERS.
 - 3) LENGTHS OF PIPE TO BE CONFIRMED ON SITE PRIOR TO ORDERING OF PIPES.
 - 4) MINIMUM COVER OF 600mm FOR ALL PIPES
 - 5) MINIMUM GRADIENT OF PIPE: 1:100mm. TO BE 1:14
 - 6) ALL LEVELS TO BE CONFIRMED ON SITE
 - 7) ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

REV.	DATE	DESCRIPTION



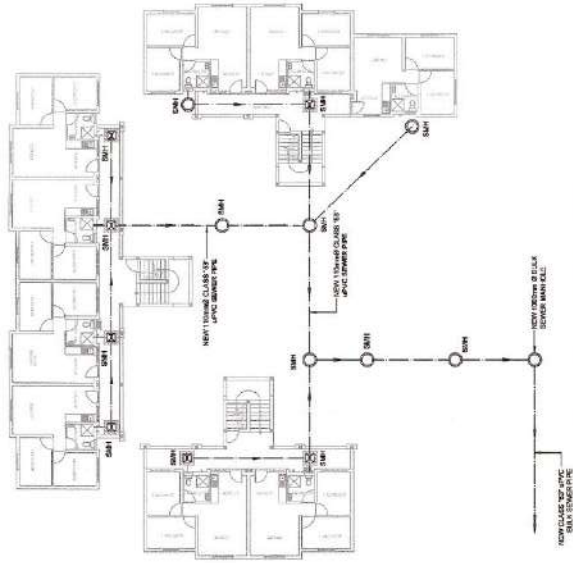
PREBEN NAIDOO & ASSOCIATES
 CONSULTING CIVIL AND STRUCTURAL ENGINEERS
 P.O. BOX 539
 Phosha Allied Street
 Lucent
 Peermansburg
 3501

Tel. No. (+27) (0)31 342 2705
 Fax. No. (+27) (0)31 342 4910
 e-mail address: preben@preben.co.za

COMPONENT: THE DRAWING IS THE PROPERTY OF PREBEN NAIDOO & ASSOCIATES AND IS NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT FROM PREBEN NAIDOO & ASSOCIATES

DATE	APPROVED/CONSULTANT
12/12	P. Naidoo
12/12	S. Govender
12/12	P. Naidoo

PROJECT:	WESTGATE HOUSING DEVELOPMENT (GRANGE)
CONTRACT NO.:	PO 1249
DRAWING TITLE:	SEWER INFRASTRUCTURE: SEWER CONNECTION DETAILS
SCALE:	AS SHOWN
DRAWING NO.:	PO 1249/006
REVISION:	0



SEWER CONNECTION TYPE "11"
 (BLOCK TYPE "D1" AND "D2")
 SCALE: DIAGRAMATIC

SCHEDULE OF PIPE FITTINGS, ETC. (BLOCK TYPE "D1" AND "D2")

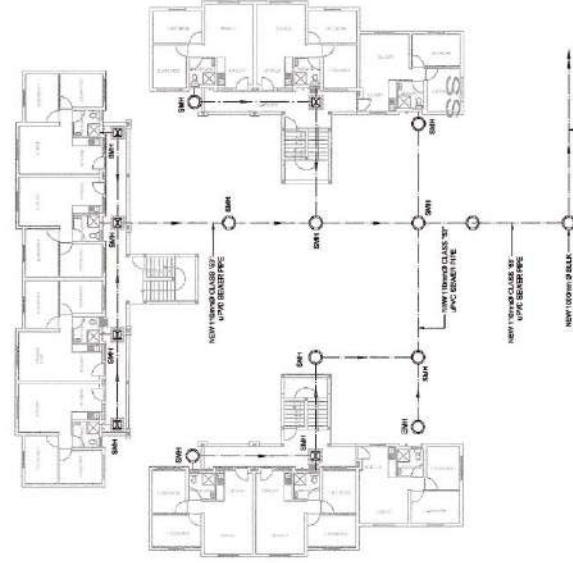
KEY	DESCRIPTION	PER BLOCK	NO. OF BLOCKS	TOTAL
—	NEW 110mm CLASS "B" UP-PC SEWER PIPE	150m	02	300m
⊞	NEW 600 x 600 BRICK SEWER	07	02	14
○	NEW 100mm Ø PRE-CAST CONCRETE SEWER MANHOLE	07	02	14

ALL OTHER NECESSARY ELBOWS, TEES, COUPLINGS, ETC.

SCHEDULE OF PIPE FITTINGS, ETC. (BLOCK TYPE "E1")

KEY	DESCRIPTION	PER BLOCK	NO. OF BLOCKS	TOTAL
—	NEW 110mm CLASS "B" UP-PC SEWER PIPE	100m	01	100m
⊞	NEW 600 x 600 BRICK SEWER	08	01	08
○	NEW 100mm Ø PRE-CAST CONCRETE SEWER MANHOLE	08	01	08

ALL OTHER NECESSARY ELBOWS, TEES, COUPLINGS, ETC.



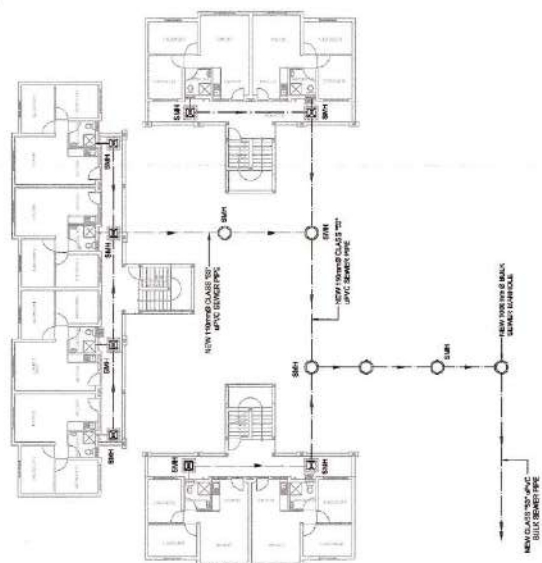
SEWER CONNECTION TYPE "10"
 (BLOCK TYPE "C2")
 SCALE: DIAGRAMATIC

SCHEDULE OF PIPE FITTINGS, ETC. (BLOCK TYPE "C2")

KEY	DESCRIPTION	PER BLOCK	NO. OF BLOCKS	TOTAL
—	NEW 110mm CLASS "B" UP-PC SEWER PIPE	150m	01	150m
⊞	NEW 600 x 600 BRICK SEWER	06	01	06
○	NEW 100mm Ø PRE-CAST CONCRETE SEWER MANHOLE	16	01	16

ALL OTHER NECESSARY ELBOWS, TEES, COUPLINGS, ETC.

NOTE:
 ALL QUANTITIES INDICATED ARE PURELY GIVEN AS A GUIDE. QUANTITY SURVEYOR TO CONFIRM ALL QUANTITIES.



SEWER CONNECTION TYPE "12"
 (BLOCK TYPE "E1")
 SCALE: DIAGRAMATIC

TENDER DRAWINGS

NOTES:

- 1) ALL SETTING OUT DETAILS TO BE CHECKED AND CONFIRMED ON SITE
- 2) ANY SERVICES TO BE RELOCATED WHERE NECESSARY TO ACCOMMODATE THE PROPOSED DEVELOPMENT. CONSULT WITH THE SERVICE OWNERS.
- 3) ALL SERVICES TO BE CONFIRMED ON SITE PRIOR TO ORDERING OF PIPES.
- 4) MINIMUM COVER OF 600mm FOR ALL PIPES.
- 5) MINIMUM GRADIENT OF PIPE: 1:100mm TO BE MAINTAINED THROUGHOUT.
- 6) MAXIMUM GRADIENT OF PIPE: 1:100mm TO BE MAINTAINED THROUGHOUT.
- 7) ALL LEVELS TO BE CONFIRMED ON SITE.
- 8) ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

DWG. NO.	REFERENCE DRAWINGS	
REV.	DATE	DESCRIPTION
SCALE: OVERLAPPED DRAWING		



PREBEN NAIQOO & ASSOCIATES
 CONSULTING CIVIL AND STRUCTURAL ENGINEERS
 P. O. BOX 633
 350 Prince Alfred Street
 Luton
 Hertsmere
 Herts
 SG2 7JQ
 UK
 Tel No: 01753 (038) 342 2700
 Fax No: 01753 (038) 342 2661
 E-mail address: preben@preben.co.uk

DATE	APPROVED FOR	DATE
12/12	P. NAIQOO	12/12
12/12	S. QADRI	12/12
12/12	P. NAIQOO	12/12

CONSULTANTS DRAWING NO: PO 1249

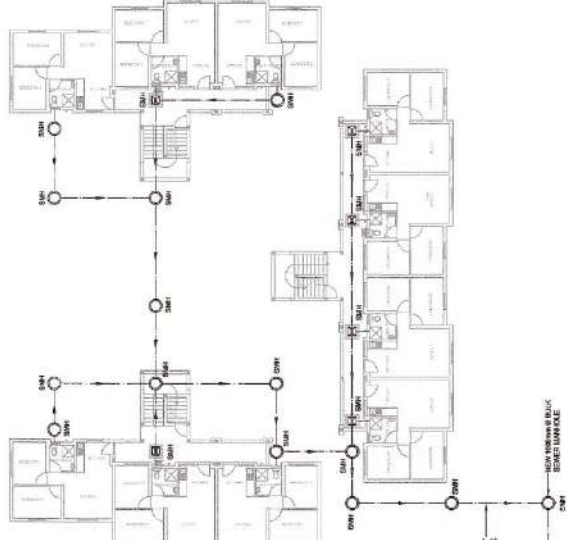
WESTGATE HOUSING DEVELOPMENT (GRANGE)

DRAWING TITLE

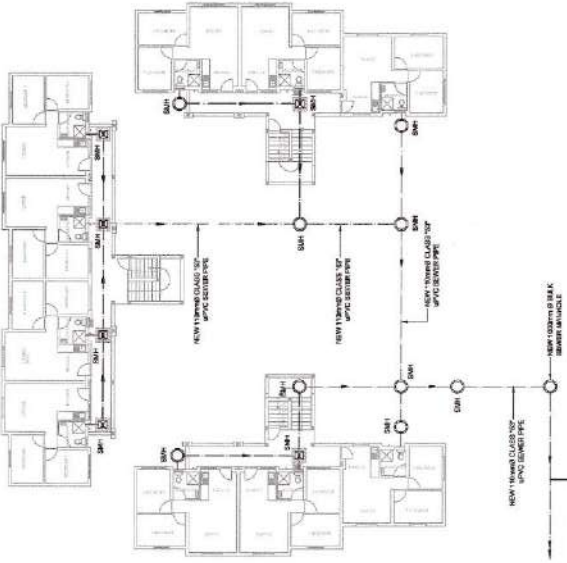
SEWER INFRASTRUCTURE: SEWER CONNECTION DETAILS

SCALE: AS SHOWN

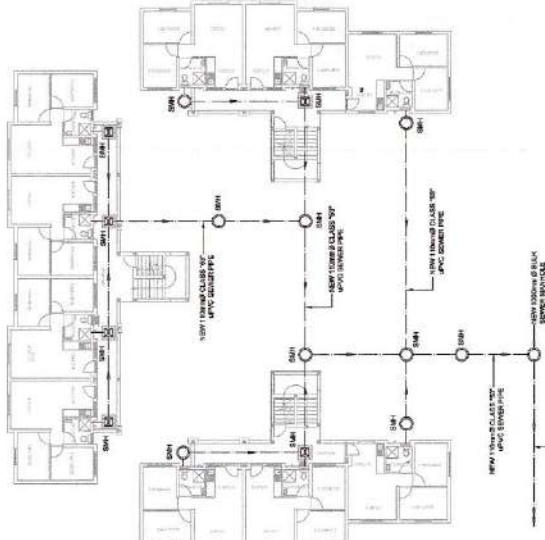
REVISION: 0



SEWER CONNECTION TYPE "1"
 (BLOCK TYPE "A9", "A10", "A12", "A13", "A14", "A18", "A19")
 SCALE: DIAGRAMATIC



SEWER CONNECTION TYPE "11"
 (BLOCK TYPE "A1", "A2", "A3", "A4", "A5", "A6", "A7", "A8")
 SCALE: DIAGRAMATIC



SEWER CONNECTION TYPE "3"
 (BLOCK TYPE "A15")
 SCALE: DIAGRAMATIC

SCHEDULE OF PIPE FITTINGS, ETC. (BLOCK TYPE "A9", "A10", "A12", "A13", "A14", "A18", "A19")

KEY	DESCRIPTION	PER BLOCK	NO. OF BLOCKS	TOTAL
	NEW 150mm CLASS '3' PVC SEWER PIPE	100m	06	1200m
	NEW 600 x 600 BRICK SEWER	06	08	48
	NEW 1000mm Ø PRE-CAST CONCRETE SEWER MANHOLE	11	08	88

ALL OTHER NECESSARY ELBOWS, TEES, COUPLINGS, ETC.

SCHEDULE OF PIPE FITTINGS, ETC. (BLOCK TYPE "A15")

KEY	DESCRIPTION	PER BLOCK	NO. OF BLOCKS	TOTAL
	NEW 150mm CLASS '3' PVC SEWER PIPE	150m	01	150m
	NEW 600 x 600 BRICK SEWER	06	01	06
	NEW 1000mm Ø PRE-CAST CONCRETE SEWER MANHOLE	08	01	08

ALL OTHER NECESSARY ELBOWS, TEES, COUPLINGS, ETC.

SCHEDULE OF PIPE FITTINGS, ETC. (BLOCK TYPE "A1", "A2", "A3", "A4", "A5", "A6", "A7", "A8")

KEY	DESCRIPTION	PER BLOCK	NO. OF BLOCKS	TOTAL
	NEW 150mm CLASS '3' PVC SEWER PIPE	150m	08	1200m
	NEW 600 x 600 BRICK SEWER	06	08	48
	NEW 1000mm Ø PRE-CAST CONCRETE SEWER MANHOLE	08	08	72

ALL OTHER NECESSARY ELBOWS, TEES, COUPLINGS, ETC.

NOTE:
 ALL QUANTITIES INDICATED ARE PURELY GIVEN AS A GUIDE. QUANTITY SURVEYOR TO CONFIRM ALL QUANTITIES.

TENDER DRAWINGS

Y 60000

NOTE:
ALL QUANTITIES INDICATED ARE PURELY GIVEN AS A GUIDE.
QUANTITY SURVEYOR TO CONFIRM ALL QUANTITIES.

SCHEDULE OF PIPE FITTINGS, ETC. FOR STORMWATER			
DESCRIPTION	SIZE	LENGTH	NO. OF FITTINGS
NEW 150mm CLASS 'B' UPVC SEWER PIPE	150mm	2.500m	
NEW 100mm CLASS 'B' UPVC SEWER PIPE	100mm	4.200m	
EXISTING SEWER PIPE			
NEW 150mm x 6 PRECAST CONCRETE SEWER MANHOLE			0

- NOTES:
- 1) ALL SETTING OUT DETAILS TO BE ENGINEERED PRIOR TO ANY CONSTRUCTION.
 - 2) ANY SERVICES TO BE RELOCATED WHERE NECESSARY IN CONSULTATION WITH THE SERVICE OWNERS.
 - 3) ANY SERVICES TO BE RELOCATED OR EXTENDED TO BE RELOCATED TO THE EXISTING POSITION OR TO A NEW POSITION TO BE DETERMINED BY THE ENGINEER.
 - 4) ALL LEVELS TO BE CONFIRMED ON SITE.
 - 5) ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

DATE	REVISION	DESCRIPTION



PREBEN NAIDOO & ASSOCIATES
CONSULTING CIVIL ENGINEERS
340 Prince Alfred Drive
P.O. Box 539
Pretoria 0001
Tel: +27 (0)11 443 3122
Fax: +27 (0)11 443 0400
E-mail: preben@preben.co.za

PROJECT: WESTGATE HOUSING DEVELOPMENT (GRANGE)
DRAWING TITLE: SEWER LAYOUT (VILLAGE 2')

NO.	DATE	REVISION
1	11/12	ISSUE FOR TENDER
2	11/12	REVISED
3	11/12	REVISED

SCALE: 1:500
PROJECT NO: PO 1249
DRAWING NO: PO 1249/02
REVISION: 0



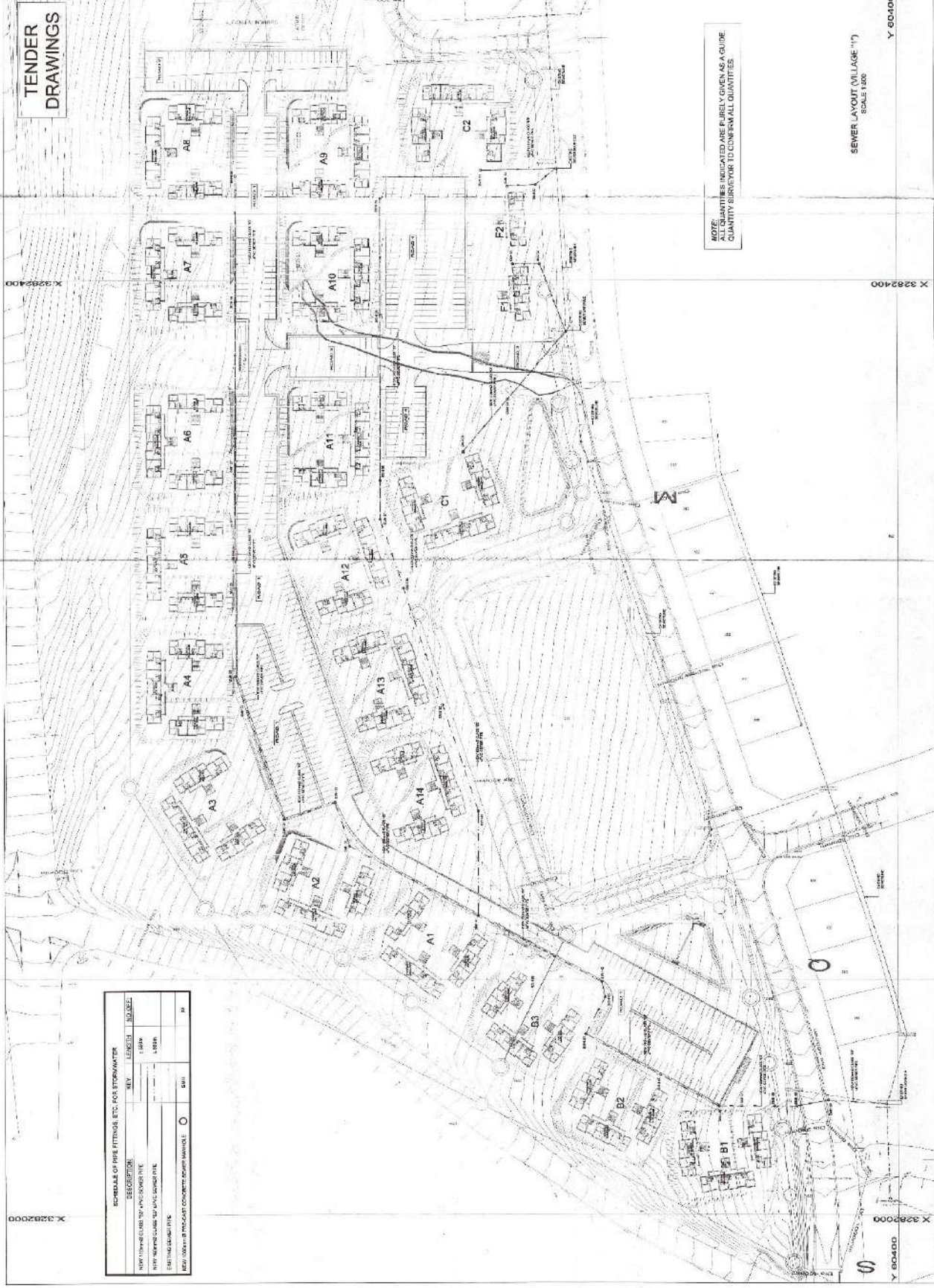
SEWER LAYOUT (VILLAGE 2')
SCALE 1:500

SEWER LAYOUT (VILLAGE 2')
SCALE 1:500

TENDER DRAWINGS

NOTE: ALL QUANTITIES INDICATED ARE PURELY GIVEN AS A GUIDE. QUANTITY SURVEYOR TO CONFIRM ALL QUANTITIES.

DESCRIPTION	KEY	LENGTH	SCALE
NEW 150MM CLAY PIPE	1	1.500	1:500
NEW 150MM CLAY PIPE	2	1.500	1:500
EXISTING 150MM CLAY PIPE	3		
NEW 150MM PRECAST CONCRETE SEWER MANHOLE	4		



NOTE: ALL QUANTITIES INDICATED ARE PURELY GIVEN AS A GUIDE. QUANTITY SURVEYOR TO CONFIRM ALL QUANTITIES.

SEWER LAYOUT (VILLAGE "1")
SCALE 1:500

Y 60400
X 3292000

SCALE: 1:500

NOTE: ALL QUANTITIES INDICATED ARE PURELY GIVEN AS A GUIDE. QUANTITY SURVEYOR TO CONFIRM ALL QUANTITIES.

1. ALL QUANTITIES INDICATED ARE PURELY GIVEN AS A GUIDE. QUANTITY SURVEYOR TO CONFIRM ALL QUANTITIES.

2. ALL QUANTITIES INDICATED ARE PURELY GIVEN AS A GUIDE. QUANTITY SURVEYOR TO CONFIRM ALL QUANTITIES.

3. ALL QUANTITIES INDICATED ARE PURELY GIVEN AS A GUIDE. QUANTITY SURVEYOR TO CONFIRM ALL QUANTITIES.

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5. ALL QUANTITIES INDICATED ARE PURELY GIVEN AS A GUIDE. QUANTITY SURVEYOR TO CONFIRM ALL QUANTITIES.

6. ALL QUANTITIES INDICATED ARE PURELY GIVEN AS A GUIDE. QUANTITY SURVEYOR TO CONFIRM ALL QUANTITIES.

7. ALL QUANTITIES INDICATED ARE PURELY GIVEN AS A GUIDE. QUANTITY SURVEYOR TO CONFIRM ALL QUANTITIES.

PREBEN NAIDOO & ASSOCIATES
CONSULTANTS AND ARCHITECTS
222 THOMAS STREET
SINGAPORE 228222
TEL: 65 6778 3333
FAX: 65 6778 3333
WWW.PREBENNAIDOO.COM

NO.	DATE	DESCRIPTION
1	11/12	ISSUED FOR TENDER
2	11/12	ISSUED FOR TENDER
3	11/12	ISSUED FOR TENDER

WESTGATE HOUSING DEVELOPMENT (VILLAGE "1")

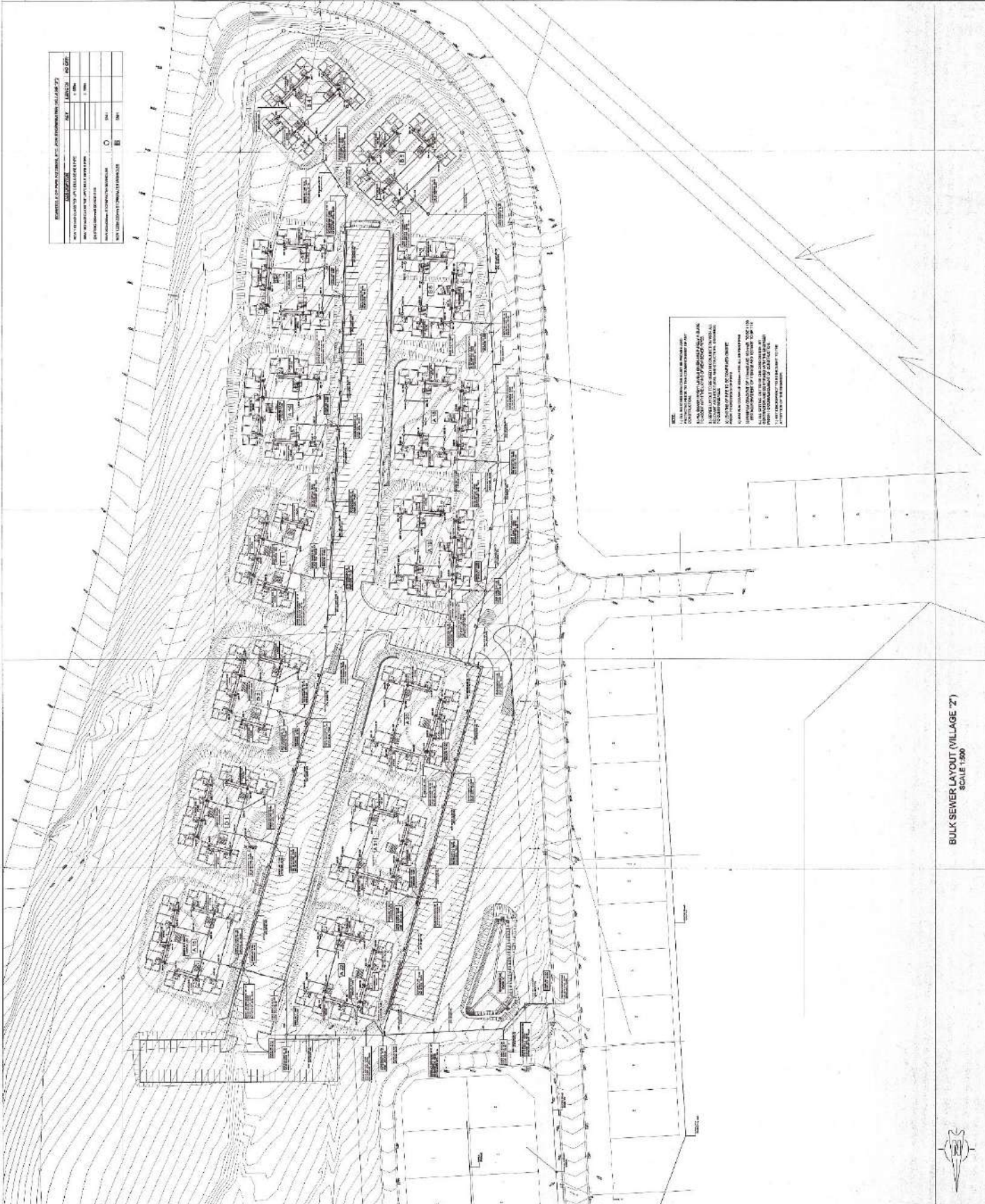
PO 1248
SCALE 1:500
PO 1248/001
0

1" = 100' (VERTICAL SCALE)

NOTES:
 1. ALL UTILITY LINES SHALL BE SHOWN AS SHOWN UNLESS OTHERWISE NOTED.
 2. ALL UTILITY LINES SHALL BE SHOWN AS SHOWN UNLESS OTHERWISE NOTED.
 3. ALL UTILITY LINES SHALL BE SHOWN AS SHOWN UNLESS OTHERWISE NOTED.
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 10. ALL UTILITY LINES SHALL BE SHOWN AS SHOWN UNLESS OTHERWISE NOTED.

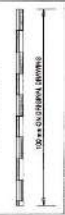
SUBMISSION DRAWINGS

NO.	DATE	DESCRIPTION	BY	CHECKED
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3	10/15/10	ISSUED FOR PERMIT	J. N. [Signature]	[Signature]
4	10/15/10	ISSUED FOR PERMIT	J. N. [Signature]	[Signature]
5	10/15/10	ISSUED FOR PERMIT	J. N. [Signature]	[Signature]



NOTE:
 1. ALL UTILITY LINES SHALL BE SHOWN AS SHOWN UNLESS OTHERWISE NOTED.
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3	10/15/10	ISSUED FOR PERMIT	J. N. [Signature]	[Signature]
4	10/15/10	ISSUED FOR PERMIT	J. N. [Signature]	[Signature]
5	10/15/10	ISSUED FOR PERMIT	J. N. [Signature]	[Signature]



PAUL N. [Signature] & ASSOCIATES
 500 [Address]
 [City, State, Zip]
 [Phone Number]
 [Fax Number]

NO.	DATE	DESCRIPTION	BY	CHECKED
1	10/15/10	ISSUED FOR PERMIT	J. N. [Signature]	[Signature]
2	10/15/10	ISSUED FOR PERMIT	J. N. [Signature]	[Signature]
3	10/15/10	ISSUED FOR PERMIT	J. N. [Signature]	[Signature]
4	10/15/10	ISSUED FOR PERMIT	J. N. [Signature]	[Signature]
5	10/15/10	ISSUED FOR PERMIT	J. N. [Signature]	[Signature]

PROJECT:
 WESTGATE HOUSING DEVELOPMENT
 (ORANGE)

DRAWING TITLE:
 BULK SEWER INFRASTRUCTURE
 BULK SEWER LAYOUT (VILLAGE 2')

DATE:
 10/15/10

AS SHOWN:
 10/15/10

PROJECT NO.:
 PO 1246303 (SHEET 3 OF 3)

BULK SEWER LAYOUT (VILLAGE 2')
 SCALE 1:500



NOTES:
 1. THIS DRAWING IS TO BE USED FOR THE PRELIMINARY DESIGN ONLY. THE DESIGNER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE CLIENT.
 2. ALL DIMENSIONS SHALL BE IN METERS UNLESS OTHERWISE SPECIFIED.
 3. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
 4. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
 5. ALL UTILITIES SHALL BE DEEPER THAN THE PROPOSED FOUNDATION LEVELS.
 6. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

SUBMISSION DRAWINGS



NOTES:
 1. THIS DRAWING IS TO BE USED FOR THE PRELIMINARY DESIGN ONLY. THE DESIGNER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE CLIENT.
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 4. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
 5. ALL UTILITIES SHALL BE DEEPER THAN THE PROPOSED FOUNDATION LEVELS.
 6. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

BULK SERVER LAYOUT (VILLAGE "1" AND VILLAGE "2")
 SCALE 1:500



REBIN NAJIED & ASSOCIATES
 ARCHITECTS AND ENGINEERS
 10000 16th Avenue, Suite 100
 Edmonton, Alberta T5C 1S7
 Canada
 Tel: (780) 443-1111
 Fax: (780) 443-1112
 Email: info@rebinna.com

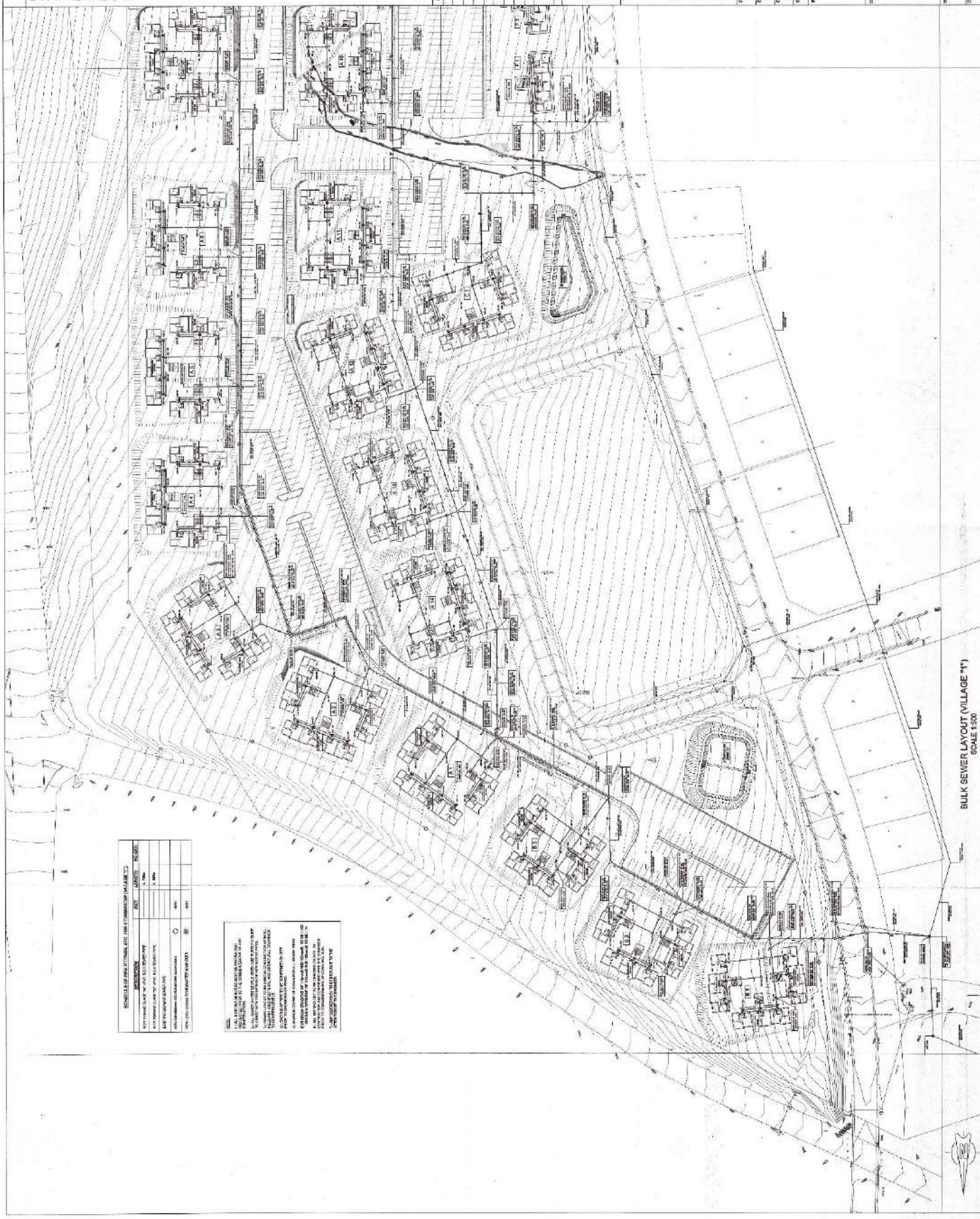
NO.	DATE	DESCRIPTION	BY	CHECKED	DATE
1	12/13/13	ISSUED FOR PERMITTING	P. NAJIED	S. GOVINDARAJU	12/13/13

PROJECT:	WESTGATE HOUSING DEVELOPMENT (BRANZE)
DRAWING TITLE:	BULK SERVER LAYOUT (VILLAGE "1" AND VILLAGE "2")
SCALE:	AS SHOWN
DATE:	12/13/13
PROJECT NO.:	PO 1248
DRAWING NO.:	PO 1248 (SHEET 2 OF 3)



NOTES:
 1. THIS DRAWING IS A PRELIMINARY DESIGN. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS TO BE INDICATED UNLESS OTHERWISE NOTED.
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SUBMISSION DRAWINGS



SCHEDULE OF WORKS

NO.	DESCRIPTION	DATE	STATUS
1	PRELIMINARY DESIGN	12/13/13	COMPLETE
2	FINAL DESIGN	12/13/13	COMPLETE
3	CONSTRUCTION	12/13/13	IN PROGRESS
4	COMPLETION	12/13/13	PENDING

NOTES:
 1. ALL DIMENSIONS TO BE INDICATED UNLESS OTHERWISE NOTED.
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REVISIONS

NO.	DATE	DESCRIPTION
1	12/13/13	ISSUED FOR PERMIT
2	12/13/13	ISSUED FOR PERMIT
3	12/13/13	ISSUED FOR PERMIT



BREEN NAIDOO & ASSOCIATES
 CONSULTING AND ARCHITECTURAL FIRM
 300 PINEWOOD DRIVE
 SUITE 100
 WESTVILLE, NC 27177
 TEL: (919) 433-1111
 FAX: (919) 433-1112
 WWW: BREENNAIDOO.COM

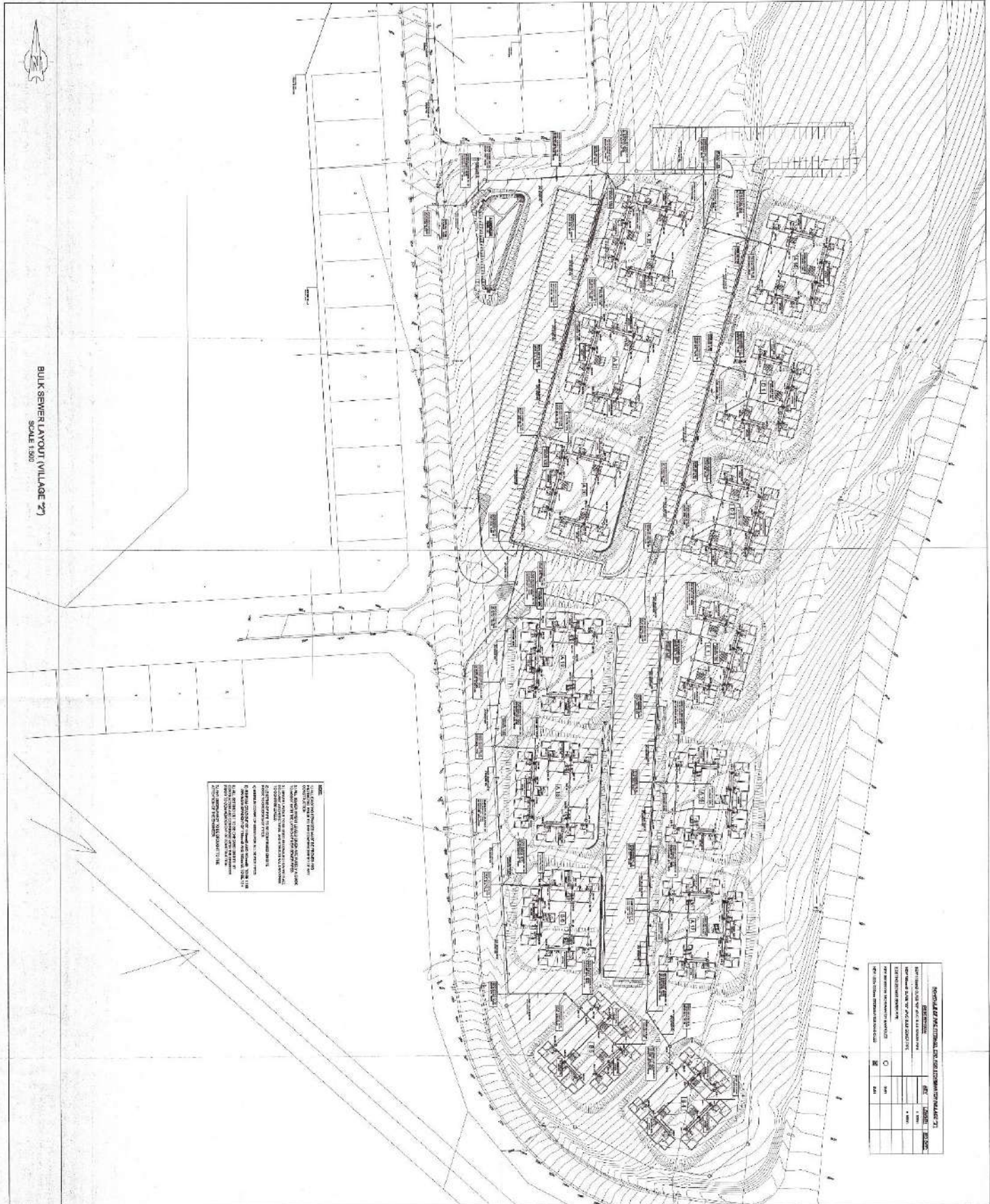
PROJECT INFORMATION

NO.	DATE	DESCRIPTION
1	12/13/13	ISSUED FOR PERMIT
2	12/13/13	ISSUED FOR PERMIT
3	12/13/13	ISSUED FOR PERMIT

WESTVILLE HOUSING DEVELOPMENT
 GRANDVIEW
 BULK SEWER INFRASTRUCTURE
 BULK SEWER LAYOUT (VILLAGE 'Y')

BULK SEWER LAYOUT (VILLAGE 'Y')
 SCALE 1"=50'





BULK SEWER LAYOUT VILLAGE 77
SCALE 1:500

NOTES

1. ALL SEWER LINES SHALL BE 150mm DIA UNLESS OTHERWISE SPECIFIED.
2. ALL SEWER LINES SHALL BE 1.8m DEEP UNLESS OTHERWISE SPECIFIED.
3. ALL SEWER LINES SHALL BE 1.8m DEEP UNLESS OTHERWISE SPECIFIED.
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SCHEDULE OF WORK ITEMS AND QUANTITIES FOR PROJECT 77			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	SEWER MAINS	M	1000
2	SEWER MANHOLES	NOS	10
3	SEWER CHECK VALVES	NOS	10
4	SEWER CLEANOUTS	NOS	10
5	SEWER PIPES	M	1000
6	SEWER FITTINGS	NOS	100
7	SEWER MANHOLE COVERS	NOS	10
8	SEWER CLEANOUT COVERS	NOS	10
9	SEWER PIPES	M	1000
10	SEWER FITTINGS	NOS	100

NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS.
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SUBMISSION DRAWINGS

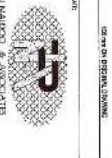
PROJECT: VILLAGE 77 WASTEWATER TREATMENT PLANT (WTP)

CLIENT: LOCAL GOVERNMENT

DATE: 15/10/2023

SCALE: AS SHOWN

SHEET: 0 OF 3



PIERRE MALDINI & ASSOCIATES
CONSULTANTS

150, RIVERVIEW DRIVE
SUITE 100
MONTREAL, QUEBEC H3T 2K7
CANADA

TEL: (514) 392-3939
FAX: (514) 392-3938
WWW.PMA.AS.COM

NO.	REVISION	DATE
1	ISSUED FOR PERMIT	15/10/2023
2	FOR CONSTRUCTION	15/10/2023

CONSULTANT:

PROJECT:

CLIENT:

DATE:

SCALE:

SHEET:

OF:



BULK SEWER LAYOUT (VILLAGE 1 AND VILLAGE 2)
SCALE 1/8" = 1'-0"

NOTES:
1. ALL SEWER LINES SHALL BE 12" DIA. UNLESS OTHERWISE NOTED.
2. ALL SEWER LINES SHALL BE 15' DEPTH UNLESS OTHERWISE NOTED.
3. ALL SEWER LINES SHALL BE 15' DEPTH UNLESS OTHERWISE NOTED.
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SUBMISSION
DRAWINGS

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DATE: 01/20/2018	REVISIONS:
NO. 1	DATE: 01/20/2018
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P. ERINI, LANDSCAPE ARCHITECTS & ASSOCIATES
CONSULTING ENGINEERS AND ARCHITECTS
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Portland, Oregon 97201
Tel: 503.222.8888
Fax: 503.222.8888
www.perinlandscape.com

PROJECT: WEST GATE KIDS AND DEVELOPMENT (PHASE 2)
DRAWING TITLE: BULK SEWER INFRASTRUCTURE (VILLAGE 1 AND VILLAGE 2)
SCALE: AS SHOWN
SHEET: 0
DATE: 01/20/2018

