

REVISIONS:

GENERAL INFORMATION:
 NUMBER OF STORIES (UNDERGROUND) 1/0
 FOUNDATION TYPE SPREAD FOOTING
 FLOOR SYSTEM STEEL DECK

REFERENCE CODES:
 1. THE BUILDING CODES USED FOR THE DESIGN ARE: NOTED
 BY: C.A.

1. 2002 NORTH CAROLINA BUILDING CODE
 2. ASCE 7-02 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
 3. AISC 360-02 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
 4. AISC LRFD - MANUAL OF STEEL CONSTRUCTION LOAD & RESISTANCE FACTOR DESIGN
 5. STEEL DECK INSTITUTE DIAPHRAGM DESIGN MANUAL SECOND EDITION
 2. IN MY PROFESSIONAL JUDGEMENT AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE NORTH CAROLINA BUILDING CODE

DESIGN LOADS:
 1. ALL STRUCTURAL ELEMENTS, EXPOSED TO WIND, HAVE BEEN DESIGNED PER THE GUIDELINES OF THE ASCE 7-02 BUILDING CODE WITH THE FOLLOWING DESIGN VALUES:
 WIND SPEED = 90 MPH (25.2 M/S) (SUST.)
 EXPOSURE B
 IMPORTANCE FACTOR = 1.00
 BUILDING CATEGORY II
 K_d = 0.85 FOR MWFRS
 K_z = 0.85 FOR CMC
 INTER PRESSURE COEFFICIENTS AS PER (1) ONLY ENCLOSED

GENERAL NOTES:
 1. VERIFY ALL DIMENSIONS, ELEVATIONS, SIZE AND LOCATION OF WALL OPENINGS, COLUMNS, AND SLAB FINISHES WITH ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION.
 2. STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS TO VERIFY DIMENSIONAL LOCATIONS OF DISPERSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, BOLT SETTINGS, RELIEVERS, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
 3. ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY MECHANICAL, ELECTRICAL OR PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED. CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER FOR APPROVAL A DRAWING DETAILING THE OPENING LOCATIONS AND SIZE PRIOR TO CONSTRUCTION. NO PENETRATION OF ANY STRUCTURAL MEMBER NOT SHOWN ON THE STRUCTURAL DRAWINGS WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
 4. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE, COUNTY AND OR MUNICIPAL CODES AND ORDINANCES.
 5. CONTRACTOR SHALL OBTAIN LATEST SET OF DRAWINGS INCLUDING ANY REVISIONS BEFORE STARTING CONSTRUCTION.
 6. ALL DETAILS, SECTIONS AND NOTES SHOWN ON THESE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE SHOWN.
 7. COMPUTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
 8. WHEN PERFORMING WORK BELOW GRADE, CARE SHALL BE TAKEN TO AVOID DAMAGING ANY EXISTING UTILITIES. ALL UNKNOWN UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. ANY DAMAGE TO THE EXISTING UTILITIES SHALL BE REPORTED TO ALL AFFECTED PARTIES INCLUDING THE ARCHITECT.
 9. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION AND SHORING PROCEDURES AND PROTECTION OF ADJACENT PROPERTY, STREETS AND UTILITIES IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT.
 10. THE CONTRACTOR SHALL SUPPLY THE ENGINEER THREE COPIES OF SHOP DRAWINGS A MINIMUM OF ONE WEEK PRIOR TO PLACEMENT. THE REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THE REVIEW DOES NOT GUARANTEE IN ANY WAY THAT THE SHOP DRAWINGS ARE CORRECT, NOR DOES IT IMPLY THAT THEY SUPERSEDE THE STRUCTURAL DRAWINGS.

1. SUBMITTALS TO STRUCTURAL ENGINEER:
 a) CONCRETE TEST REPORT FOR CAST-IN-PLACE CONCRETE AS PER ACI 318
 b) REINFORCING STEEL SHOP DRAWINGS
 c) PREFABRICATED ROOF TRUSSES SHOP DRAWINGS
 d) ERECTION DRAWINGS AND DESIGN DATA
 e) RAIL SHOP DRAWINGS AND DESIGN DATA

12. RAILCANY AND TERRACE RAILINGS AND STAIR RAILINGS SHALL BE DESIGNED BY MANUFACTURER'S REGISTERED ENGINEER IN THE STATE OF NORTH CAROLINA BUILDING TO RESIST A LOAD OF 30 LBS/FT. APPLIED IN ANY DIRECTION AT TOP OF SUCH BARRIER POSTS SHALL BE DESIGNED TO RESIST THE REACTION FROM THE RAILROAD OR A MINIMUM LOAD OF NOT LESS THAN 220 LBS. APPLIED IN ANY DIRECTION AND AT ANY POINT ON THE RAIL.

STRUCTURAL STEEL:
 1. SHALL BE FABRICATED ACCORDING TO AISC SPECIFICATIONS.
 2. STRUCTURAL STEEL SHALL CONFORM TO (T.N.O.):
 SHAPE ASTM A572 GRADE 50, ASTM A582 (F_y = 50ksi, F_u = 65ksi)
 PLATE ASTM A572 (F_y = 50ksi)
 TUBE ASTM A500 GRADE B (F_y = 48ksi, F_u = 58ksi)
 PIPE ASTM A53 GRADE B (F_y = 35ksi, F_u = 48ksi)
 3. ANCHOR BOLTS SHALL CONFORM TO EITHER ASTM A307 OR ASTM A325.
 4. ALL SHOP CONNECTIONS TO BE WELDED.
 5. STEEL TO RECEIVE TWO (2) SHOP COATS AND TWO (2) FIELD COATS OF AN APPROVED PAINT UNLESS OTHERWISE NOTED BY ARCHITECT.
 6. ALL TUBE COLUMNS SHALL BE (PER PROTOCOL) AS PER SECTION 3105 OF THE STANDARD BUILDING CODE LATEST EDITION.
 7. ALL WELDS SHALL CONFORM TO THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY.
 8. WELDS SHALL BE MADE USING E70XX ELECTRODES
 9. ALL BOLTED CONNECTION SHALL BE MADE USING A325 BOLTS UNLESS OTHERWISE NOTED IN DRAWINGS SECTION OR DETAILS.

FORMWORK AND SHORING:
 1. NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO-THIRDS OF THE 28 DAY DESIGN STRENGTH.
 2. TWO COMPLETE SETS OF FORMS SHALL BE USED FOR FOUR IN FLAT SLABS AND SPANDRELS. A MINIMUM OF 3 STORES OF SHORING AND/OR REBORING SHALL BE USED WHICH SHALL CONSIST OF ONE COMPLETE SET OF VERTICAL SHORES AND 1/40 SETS OF VERTICAL SHORES THAT COMPRISE AT LEAST 50% OF A COMPLETE SET.
 3. DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND REBORING SHALL MEET THE REQUIREMENTS SET FORTH IN ACI 308 AND A308.1 AND 301 AND THE NORTH CAROLINA BUILDING CODE AND SHALL BE DESIGNED BY A REGISTERED ENGINEER.

SPREAD FOOTING AND MISCELLANEOUS FOUNDATIONS:

1. A GEOTECHNICAL ENGINEER SHALL SUBMIT A SOIL REPORT TO VERIFY THE ALLOWABLE SOIL DESIGN BEARING PRESSURE, GEOTECHNICAL ENGINEER
 DATE OF REPORT: _____
 PROJECT NUMBER: _____
 ALLOW BEARING PRESSURE: _____
 (S (LBS/FT²))
 2. THE DESIGN SOIL PRESSURE USED FOR ALL CALCULATIONS IS (LBS/FT²)
 3. DISTRIBUTION OF THE VARIOUS FOOTING TYPES IS INDICATED ON THE FOUNDATION PLAN. FOOTING SEES AND REINFORCING ARE GIVEN IN THE FOOTING SCHEDULE.
 4. FOOTING SHALL BE CENTERED UNDER WALLS, COLUMNS OR PILASTERS TYPICAL UNLESS NOTED OTHERWISE.
 5. ALL BACKFILL BELOW FOOTINGS, SLABS-ON-GRADE, AND AGAINST WALLS SHALL BE MATERIAL AS APPROVED BY THE SOILS ENGINEER AND COMPACTED PER SOILS ENGINEER'S RECOMMENDATIONS (MIN 95%).
 6. CONTRACTOR SHALL FOLLOW ALL ADDITIONAL REQUIREMENTS AS SPECIFIED IN THE SOILS REPORT.
 7. NOTIFY ARCHITECT AND SOILS ENGINEER IF FOUNDATION CONDITIONS ENCOUNTERED DIFFER FROM SOILS EXPLORATION INFORMATION MADE AVAILABLE TO THE CONTRACTOR.
 8. FOUNDATION FILL COMPACTION OR IN-PLACE DENSITY TESTS SHALL BE TAKEN AS FOLLOWS: ONE (1) EACH COLUMN FOOTING, ONE FOR EACH 2000 SQUARE FEET (1 OF SLAB-ON-GRADE, ONE FOR EACH 100 LINEAR FEET OF WALL FOOTING, AND AS REQUIRED BY THE CIVIL ENGINEER. COMPACTION TESTS SHALL BE TAKEN FOR EACH LAYER OF FILL AT EACH LOCATION. FILL OR IN-PLACE DENSITIES NOT MEETING THE REQUIRED COMPACTION SHALL BE RECOMPACTED AND RETESTED AT THE CONTRACTOR'S EXPENSE.
 9. UNLESS INDICATED OTHERWISE, EXCAVATE TO STRIP ALL SURFACE VEGETATION, TOP SOIL, ASPHALT, AND OTHER ORGANICALLY UNSUITABLE MATERIAL, FOR THE ENTIRE AREA OF THE BUILDING PLUS 5'-0" BEYOND BUILDING LINES EXCEPT DO NOT ENDOURCH BEYOND PROPERTY LINES.
 10. BACKFILL AROUND THE EXTERIOR PERIMETER OF WALLS SHALL NOT BE PLACED UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS. DO NOT PROCEED WITH BACKFILL UNTIL (7) DAYS AS A MINIMUM AFTER THE COMPLETION OF INTERIOR FLOOR SYSTEMS UNLESS WALLS ARE ADEQUATELY BRACED.
 BACKFILL SHALL NOT BE PLACED UNTIL AFTER COMPLETION AND INSPECTION OF WATERPROOFING WHERE WATERPROOFING OCCURS.
 11. REINFORCE REINFORCING BARS IN CONTINUOUS FOOTINGS SHALL BE NOT LESS THAN 2# BAR DIAMETERS AND REINFORCEMENT SHALL BE CONTINUOUS AROUND ALL CORNERS AND CHANGES IN DIRECTIONS. CONTINUITY SHALL BE PROVIDED AT CORNERS OR CHANGES IN DIRECTION BY WELDING THE LONGER BAR STEEL AROUND THE CORNER 4# BAR DIAMETERS OR BY ADDING MATCHING REINFORCING STEEL WHICH SHALL EXTEND 4# BAR DIAMETERS FROM EACH CORNER OR CHANGE IN DIRECTION. WHEN BARS ARE REQUIRED, THE BARS SHALL BE HELD IN PLACE AND ALIGNED BY TRANSVERSE BARS SPACED NOT MORE THAN 4 FEET APART.

SETTLEMENT MEASUREMENT
 1. THE PLACEMENT OF OBSERVATION SPOT SEE PLAN
 2. IN GENERAL, RECORD THE DATA WHEN FINISHING EVERY STOREY. RECORD THE DATA EVERY MONTH, RECORD THE DATA EVERY THREE MONTHS WITHIN ONE YEAR AFTER FINISHING THE PROJECT.
 RECORD THE DATA EVERY SIX MONTHS WITHIN ONE YEAR AFTER FINISHING THE PROJECT UNTIL STOPPING SETTLEMENT.
 3. IN THE PROCESS OF MEASUREMENT, IF SOMETHING SIGNIFICANTLY, INFORMING THE RELATIVE DEPARTMENT

WARNING
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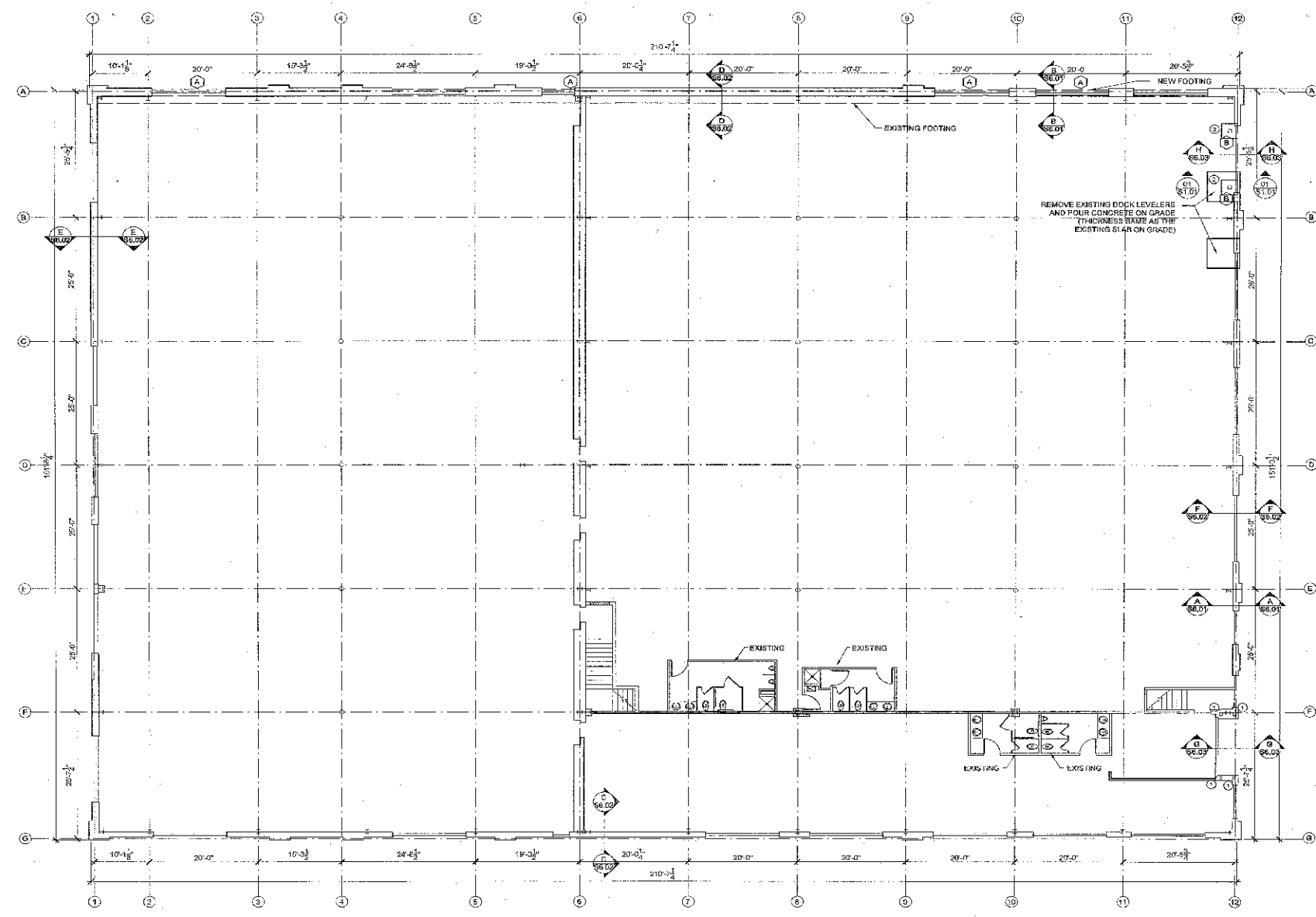
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JOB NO.: NAWK-03-37-SD
 T.L.: T.Z.
 G. VERMANS PRO DE
 NC PE 031928

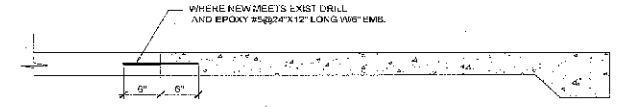
Northlake Pavilion Building #3
 Metroland Pkwy & Shovelville Rd
 Charlotte, NC

PROJECT NO. 05271-3
 DATE: 07/10/07
 DRAWN BY:
 CHECKED BY:
GENERAL NOTES
SHEET S0.01



FOUNDATION PLAN
SCALE: 1/4"=1'-0"

NOTES
 - - - - - EXISTING OPENINGS TO BE FILLED IN

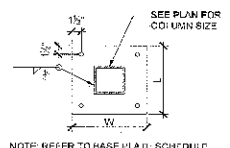


SECTION 01
SCALE: 1"=1'-0"
810/81.05

FOOTING SCHEDULE				
MK	SIZE	TYPE	REBAR	REMARK
A	14' X 18'		#4@12" BOTT. TRANS. 2#4 CONT.	NEW FOOTING
B	36' X 12'		#4@12" BOTT. TRANS. 2#4 CONT.	COLUMN FOOTING

COLUMN SCHEDULE			
MK	SIZE	TYPE	REMARK
1	6' X 6'		#30SC00-43
2	HSS 8" X 8" X 1/4"		

BASE PLATE SCHEDULE					
MK	DIMENSION		THICKNESS	ANCHOR BOLTS	REMARKS
	L	W			
BP-1	14"	14"	3/4"	(4) 3/4" A307	8" EMBEDMENT



BASE PLATE DETAIL
SCALE: 3/4"=1'-0"



JOB NO.: NWYK-03-07-SD
TL: Y. Z.

DATE: 07/10/07
DRAWN BY:
CHKD. BY:
SEVEN PAGES PHD/PE
NC REG. 68162

REVISIONS:

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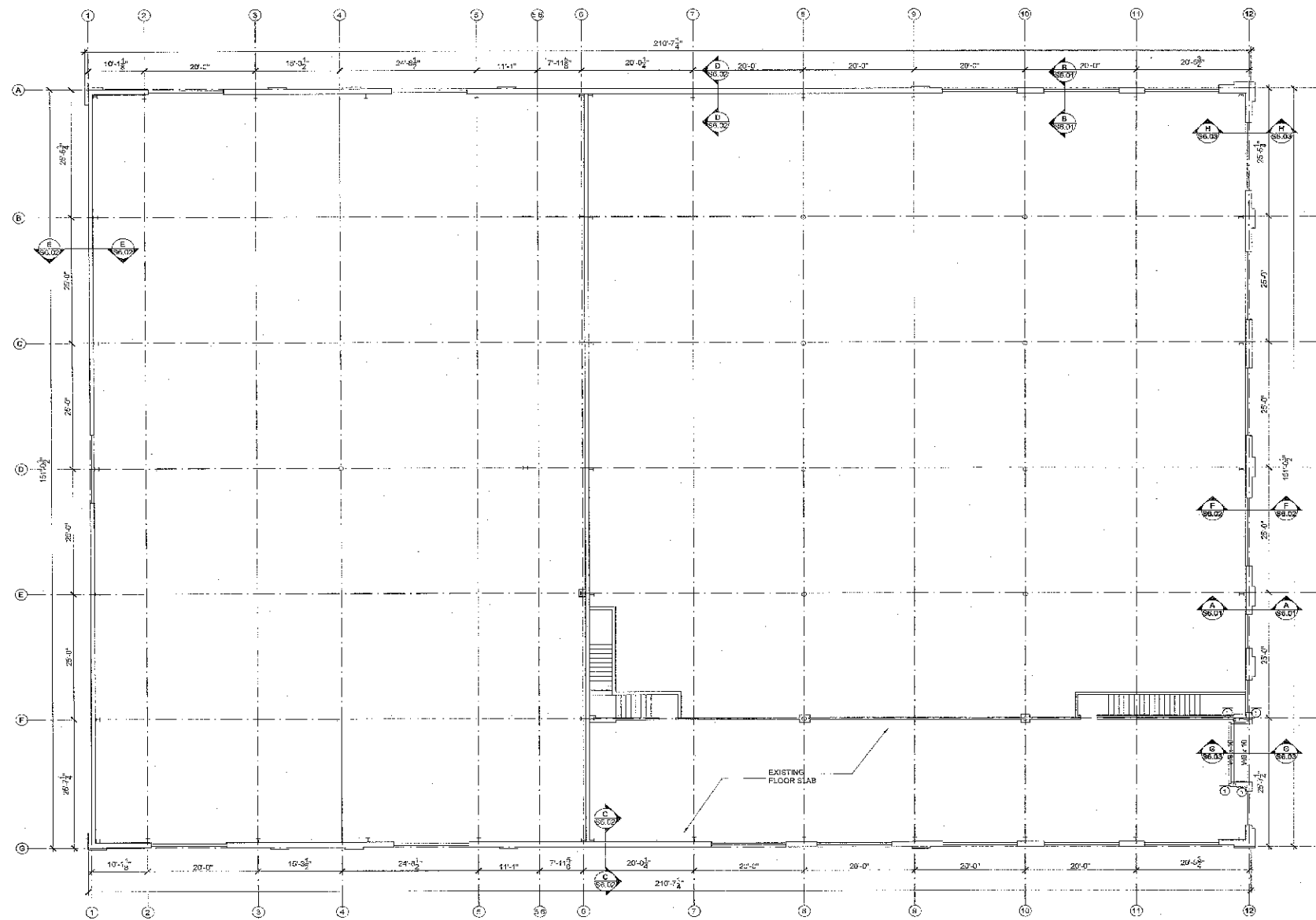
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Northlake Pavilion Building #3
Metromont Plaza & Stateville Rd
Charlotte, NC

PROJECT NO.: 05271-3
DATE: 07/10/07

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CHKD. BY:
FOUNDATION PLAN

SHEET S1.01



SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

REVISIONS:

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JOB NO.: NW7K-03-ST-SD
TL: T. 2

G. VERMAAS, P.E.
NO. PE 051902

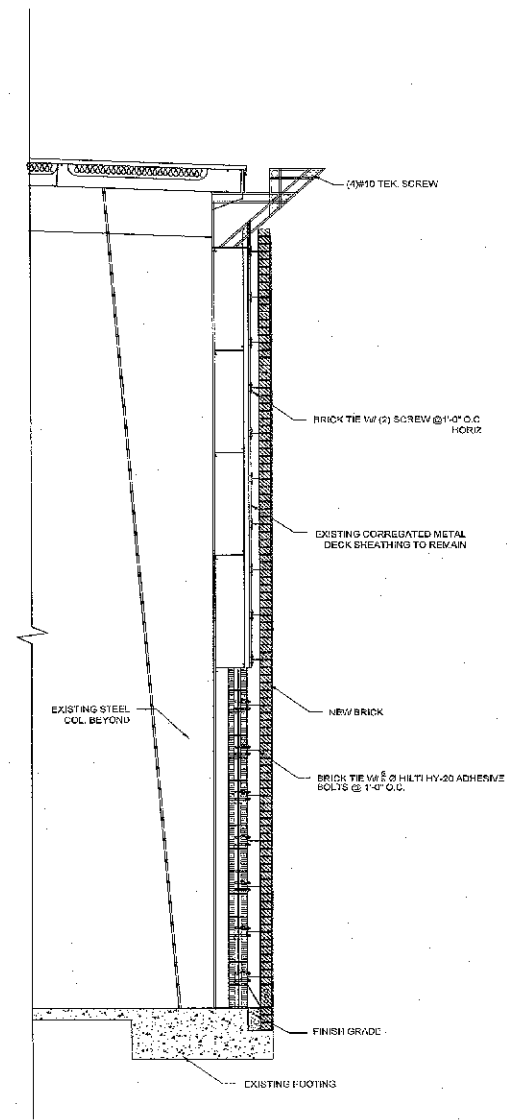
Northlake
Pavilion
Building #3
Metromart Pkwy &
Statesville Rd
Charlotte, NC

PROJECT NO.: 05771-3
DATE: 07/10/07
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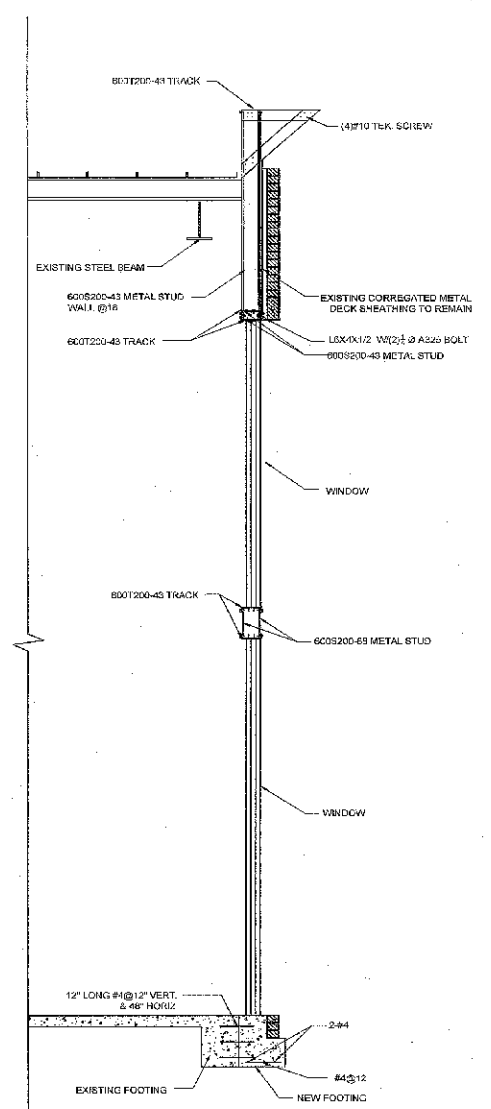
SECOND
FLOOR PLAN

SHEET S2.01

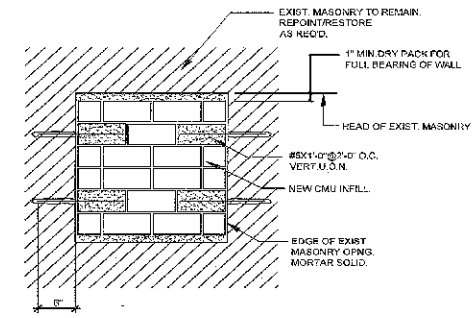
REVISIONS:



SECTION A-A
SCALE: 1/2"=1'-0"



SECTION B-B
SCALE: 1/2"=1'-0"



NEW MASONRY INFILL DETAIL
SCALE: 1/4"=1'-0"

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JOB NO: NWYK-03-37-SD
TL: T. Z

07/10/07

Northlake Pavilion Building #3
Metromost Flow & Structures Inc
Charlotte, NC

PROJECT NO: 03271-3
DATE: 07/10/07
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