

Government of Montserrat



Expansion of Information Communication Technology in Primary Schools Project

A CARIBBEAN DEVELOPMENT BANK BASIC NEEDS TRUST FUND PROJECT

TENDER DOCUMENTS

Project No: BNTF 7
Employer: Government of Montserrat
Issue Date: 29th June, 2016

Project Management

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Government of Montserrat

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INSTRUCTIONS TO TENDERERS

The following instructions have been included for the advice and guidance of Tenderers. Care should be exercised that the conditions and clauses are adhered to, since failure to comply may result in the refusal of a tender.

1. Confidentiality Documents

All recipients of tender documents for the proposed contract (whether they submit a tender or not) shall treat the details of the documents as private and confidential. Failure to do so will result in disqualification from this and future tenders.

2. Dispatch of Tenders

The tender shall be delivered before the day and hour of tender closing stated in the Invitation to Tender. The Form of Tender shall be signed by an authorized officer of the Company.

The completed Tender shall be submitted using the Form of Tender, in the copy of the Tender Document provided.

The tender package comprised of the submitted tender and all required supporting documents shall be enclosed into **inner and outer envelopes**. The inner envelope shall contain the tender package being submitted by the Tenderer. The inner envelope shall then be inserted into the outer envelope which shall bear the words **“Tender for Expansion of ICT in Primary Schools”**, must be received not later than 2p.m. Wednesday, July 27th, 2016. There shall be no indication of the identity of the sender or Tenderer on the outer envelope. The envelope must be addressed to:

The Chairman

Public Procurement Board

Ministry of Finance and Economic Management

Government Headquarters

Brades, Montserrat

3. This Tender is based on the Terms of Reference, Plans of Schools/Rooms, hereinafter referred to as the Contract Documents.
4. No unauthorized alteration or addition should be made to the Form of Tender, the Terms of Reference or to any other component of the Tender Document. If any such alteration or addition is made or these instructions are not fully complied with, the Tender may be rejected. Should any further information be required, it will be supplied on request by the Project Manager.
5. Any neglect or failure on the part of the tenders to obtain reliable information upon any matters affecting the cost, execution, installation, completion and maintenance of the Works and the Contract shall not relieve the persons whose Tender is accepted from any risks of liabilities for the completion of the Works, nor will any claim for increase of the Contract be entertained as a result of such neglect or failure. Quantities contained within the Cost Tables do not necessarily indicate conclusively the amount or the extent of works to be performed. The Contractor must inform himself, as no claims for increases will be entertained on this basis.
6. Tenderers are required to visit the site of the works to obtain for themselves, on their own responsibility, any information they may require prior to submitting a tender and entering into a contract. Each Tenderer, in

submitting a proposal, warrants that he has investigated and is acquainted with the requirements of the Contract. Submission of a tender shall be considered conclusive evidence that the Tenderer has made such examination and knows all the conditions that will affect the Works.

7. Tenders must be submitted on the Form provided. Prices shall be in Eastern Caribbean Dollars. Each form shall be completely filled out. Tender prices must be completed in ink. Erasures or other changes must be noted over the signature of the Tenderer.
8. Each Tender must contain the name, residence and place of business of the person or persons making the Tender and must be signed by the Tenderer with his usual signature. Tenders by partnership must furnish the full names of all partners and must be signed with the partnership name by one of the members of the partnership or by an authorized representative followed by the signature and designation of the person signing. Tenders by corporation to be signed with the legal name of the corporation followed by the name of the State of incorporation and by the signature and designation of the President, Secretary or other persons authorized to bind it in the matter. Satisfactory evidence of the authority of the signer on behalf of the firm shall be furnished.
9. Award of Contract will be made, if at all, to the Tenderer whose tender the Employer deems most advantageous to the Government of Montserrat. The Employer reserves the right to reject any or all tenders, or to accept any tender should it be deemed in the interests of the Employer so to do, and, in particular, if only one tender is received, the Employer reserves the right to reject it.
10. The Tenderer to whom the award is made will be required to enter into an agreement with the Employer. This agreement will be of the same form as that in the Conditions of Contract.
11. Increases / Decreases in Cost of Labour and Materials.
 - i. Increases / decreases in the current cost of labour and certain materials subsequent to the date for closing of Tenders will not result in an adjustment to the Contract Price.
12. Should there be any doubt or obscurity as to the meaning of the Tender Documents, or as to anything to be done or not be done under the Contract or concerning these instructions, or any other matter or thing, Tenderers shall set forth in writing such doubts to obscurity and submit them to the Project Manager not later than two weeks before the date for submission of Tenders. These and any other outstanding matters will be answered in writing within one week of the above date.
13. Tenderers are to fill in all blank spaces in the Form of tender including the appendix, except where specifically instructed otherwise.
14. Pricing
 - i. Tenderers are to insert rates or prices against each item in the Cost Tables. Items against which no rate or price is entered by the Tenderer will be deemed to be covered by the rates of prices set against other items in the Cost Table.

- ii. Prices inserted shall be based on duty free imports from abroad of material and goods required specifically for this product and shall be deemed to include for the provision of all labour, materials and plant, for transport, for deliveries to Site (where not specifically mentioned in the description), for temporary storage of materials and return of empties, for the erection, maintenance and removal of scaffolding, temporary staging, plank ways, protection, etc. and for all other things necessary for the completion of the Works in accordance with the Terms of Reference, Site Plan,.

15. Import Duty Concessions

- i. The Tenderer must ascertain from the responsible official of the Montserrat Customs and Revenue Services the allowable concessions at present in force in respect of duty on imported materials to be incorporated in the Works.
- ii. The Tenderer must familiarize himself with the workings of the Customs Department and shall allow for the costs of and shall accept responsibility for preparing and processing the necessary documents involved in the importation of materials, etc. to be incorporated in the Works.
- iii. The Tenderer must allow for all Wharfage dues, Package Tax, Importer's Licenses (where applicable), Stamp Duties, taxes and charge that may be required.
- iv. Special rules are in force in respect of the importation of plant, scaffolding, tools, equipment and consumable stores that are not incorporated in the Works. The Tenderers must allow for the result of licenses, bonds, taxes, stamp duties or any other charges that may be required.

16. Mistakes in Tenders

Errors discovered in the Contractor's Tender will be dealt with as follows:

The Contractor will be given details of such errors and afforded an opportunity of confirming or withdrawing his offer. If the Contractor withdraws, the tender of the second most advantageous Tenderer will be examined, and if necessary this Contractor will be given a similar opportunity.

17. Compliance with instructions:

- i. No tender will be considered unless it complies with the conditions set out in these instructions.
- ii. All Addenda issued by the Project Manager prior to the date stated for the closing of Tenders shall be attached to and form part of the Tender.

18. The Employer will not be responsible for any expenses or losses that may be incurred by any Tenderer in the preparation of this Tender.

19. The Tenderer shall be bound by his Tender except as provided for in Paragraph 16 of these instructions.

20. Discrepancies in Terms of Reference

- i. Any ambiguity found in the Terms of Reference shall be called to the attention of the Project Manager prior to tendering.

- ii. Ambiguities will be clarified by the Project Manager by Addenda prior to accepting tenders, and one copy of each Addendum shall be submitted with the Tender. No consideration will be given to any claim by any Tenderer that an ambiguity or question was settled verbally prior to submitting his Tender.
- iii. All information given to Tenderers other than by means of the contract documents or by Addenda as described above, is given informally and shall not be used as the basis of a claim.
- iv. To receive consideration, such question shall be submitted in writing to the Project Manager so as to be received at least ten days before the established date for receipt of tenders. If the question involves the quality or use of products or methods, it must be accompanied by specifications or other data in sufficient detail to enable the Project Manager to determine the quality or suitability of the product or method. In general, the Project Manager will neither approve nor disapprove particular products prior to the opening of the tenders; such products will be considered when offered by the Contractor for incorporation into the works.
- v. Decisions rendered by the Project Manager in response to questions received as above-provided will be arranged as Addenda and shall become a part of the Contract.
- vi. All information given in the contract documents relating to materials encountered, ground-water, sub-surface conditions, natural phenomena, and existing pipes and other structures is from the best source available to the Employer at present. All such information is furnished only for the information and convenience of tenderers.

21. Commencement of the Works

Tenderers are advised that the actual work of this Contract must not be stated until a "Notice to Commence Work" has been issued by the Project Manager. The Contractor shall, however, commence work no later than the date specified in the above Notification.

FORM OF TENDER

To: The Chairman
Public Procurement Board
Ministry of Finance and Economic Management
Government Headquarters
Brades, Montserrat

Dear Sir,

Re: Expansion of Information Communication Technology in Primary Schools Project

Having examined the Conditions of Terms of Reference, and Plans of Schools/Rooms for the installation of the above-named Works, we, the undersigned, offer to design, install and configure the whole of the said Works for the sum of:

_____ (\$_____)

Of such other sum as may be ascertained in accordance with the said conditions.

We undertake, if our tender is accepted, to commence the Works within _____ calendar days of receipt of the Project Manager's order to commence, and to complete and deliver the whole of the Works comprised in the Contract within _____ calculated from the date of commencement.

We agree to abide by this tender for the period of _____ days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Unless and until a formal agreement is prepared and executed this tender, together with your written acceptance thereof, shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this day of 2016.

Signature in the capacity of
duly authorised to sign tenders for and on the behalf of

(IN BLOCK CAPITALS)

Address.....

.....

FORM OF AGREEMENT

THIS AGREEMENT made the..... day of 2016

Between the Basic Needs Trust Fund (hereinafter called "The Employer") of the one part and

----- of

-----hereinafter called

("The Contractor") of the other part.

WHEREAS the Employer is desirous that certain Works should be constructed, namely

BNTF and has accepted a Tender from the Contractor for the construction, completion and maintenance of such Works. Now this agreement witnesses as follows:

1. In this agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement:
 - (a) The Tender
 - (b) The Bond (if required)
 - (c) The Conditions of Contract
 - (d) The Terms of Reference
3. In consideration of the payments to be made by the Employer to the Contractor, the Contractor hereby covenants with the Employer to design, install,configure and maintain the Works in conformity in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor in consideration of the construction, completion and maintenance of the Works the Contract Price at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties have hereunto set their respective hands

SIGNED AND DELIVERED by the said.....

.....in the presence of

SIGNED AND DELIVERED by the said.....

.....in the presence of

Advance Payment Bond

- 1 THE parties to this Bond are:
(1)-----
whose registered office is at-----
-----('the Surety'), and
(2)-----
of-----
-----('the Employer').
- 2 The Employer and-----('the Contractor') have agreed to enter into a contract for building works ('the Works') at-----
-----('the Contract').
- 3 The Employer has agreed to pay the Contractor the Sum of \$----- as an advance payment of sums due to the Contractor under the Contract (the Advance Payment) for reimbursement by the Surety on the following terms:
- (a) When the Surety receives a demand from the Employer in accordance with Clause 3(b) the Surety shall repay the Employer the sum demanded up to the amount of the Advance Payment.
- (b) The Employer shall in making any demand provide to the Surety a completed notice of demand in the form of the **Schedule** attached hereto which shall be accepted as conclusive evidence for all purposes under this Bond. The signature on any such demand must be authenticated by the Employer's bankers
- (c) The Surety shall within 5 Business Days after receiving the demand pay to Employer the sum so demanded. 'Business Day' means the day (other than a Saturday or a Sunday) on which commercial banks are open for business in Montserrat.
- 4 Payments due under this Bond shall be made notwithstanding any dispute between the Employer and the Contractor and whether or not the Employer and the Contractor are or might be under any liability one to the other. Payment by the Surety under this Bond shall be deemed a valid payment for all purposes of this bond and shall discharge the Surety from liability to the extent of such payment.
- 5 The Surety consents and agrees that the following actions by the Employer may be made and done without notice to or consent of the Surety and without in any way affecting changing or

releasing the Surety from its obligations under this Bond and the liability of the Surety hereunder shall not in any way be affected hereby. The actions are:

- (a) waiver by the Employer of any of the terms, provisions, conditions, obligations and agreements of the Contractor or any failure to make demand upon or take action against the Contractor;
- (b) any modification or changes to the Contract: and/or
- (c) the granting of any extension of time to the Contractor without affecting the terms of clause 7-c below.

6 The Surety's maximum aggregate liability under this Bond which shall commence on payment of the advance by the Employer to the Contractor shall be the amount of which shall be reduced by the amount of any reimbursements made by the Contractor to the Employer as advised by the Employer in writing to the Surety.

7 The obligations of the Surety and under this Bond shall cease upon whichever is the earliest of:

- (a) the date on which the Advance Payment is reduced to nil as certified in writing to the Surety by the Employer;
- (b) the date on which the Advance Payment or any balance thereof is repaid to the Employer by the Contractor (as certified in writing to the Surety by the Employer) or by the Surety; and
- (c) (longstop date to be given),

and any claims hereunder must be received by the Surety in writing on or before such earliest date.

8 This Bond is not transferable or assignable without the prior written consent of the Surety. Such written consent will not be unreasonably withheld.

9 This Bond shall be government and construed in accordance with the laws of Montserrat.

IN WITNESS hereof this Bond has been executed as a Deed by the Surety and delivered on the date below:

EXECUTED as a Deed by-----
for and on behalf of the Surety-----

EXECUTED as a Deed by-----
for and on behalf of the Surety-----

Date:-----

GOVERNMENT OF MONTSERRAT

TENDER SUBMISSION ANTI-COLLUSION CERTIFICATE

I/WE CERTIFY THAT THIS TENDER IS MADE IN GOOD FAITH, AND THAT WE HAVE NOT FIXED OR ADJUSTED THE AMOUNT OF THE TENDER BY OR UNDER OR IN ACCORDANCE WITH ANY AGREEMENT OR ARRANGEMENT WITH ANY OTHER PERSON. I/WE ALSO CERTIFY THAT WE HAVE NOT AND I/WE UNDERTAKE THAT WE WILL NOT BEFORE THE AWARD OF ANY CONTRACT FOR THE WORK:

DISCLOSE THE TENDER PRICE OR ANY OTHER FIGURES OR OTHER INFORMATION IN CONNECTION WITH THE TENDER TO ANY OTHER PARTY (INCLUDING ANY OTHER COMPANY OR PART OF A COMPANY FORMING PART OF A GROUP OF COMPANIES OF WHICH I AM/WE ARE A PART OF) NOR TO ANY SUB-CONTRACTOR (WHETHER NOMINATED OR DOMESTIC) NOR SUPPLIER (WHETHER NOMINATED OR DOMESTIC) OR ANY OTHER PERSON TO WHOM SUCH DISCLOSURE COULD HAVE THE EFFECT OF PREVENTING OR RESTRICTING FULL COMPETITION IN THIS TENDERING EXERCISE

ENTER INTO ANY AGREEMENT OR ARRANGEMENT WITH ANY PERSON THAT THEY SHALL REFRAIN FROM TENDERING, THAT THEY SHALL WITHDRAW ANY TENDER ONCE OFFERED OR VARY THE AMOUNT OF ANY TENDER TO BE SUBMITTED OR OTHERWISE COLLUDE WITH ANY PERSON WITH THE INTENT OF PREVENTING OR RESTRICTING FULL COMPETITION

PAY, GIVE OR OFFER PAY OR GIVE ANY SUM OF MONEY OR OTHER VALUABLE CONSIDERATION DIRECTLY OR INDIRECTLY TO ANY PERSON FOR DOING OR HAVING DONE OR CAUSING OR HAVING CAUSED TO BE DONE IN RELATION TO ANOTHER TENDER OR PROPOSED TENDER FOR THE WORK ANY ACT OR THING OF THE SORT DESCRIBED AT I), II) OR III) ABOVE.

I/WE FURTHER DECLARE THAT I/WE HAVE NO KNOWLEDGE EITHER OF ANY SUM QUOTED OR OF ANY OTHER PARTICULARS OF ANY OTHER TENDER FOR THIS CONTRACT BY ANY OTHER PARTY.

I/WE FURTHER CERTIFY THAT THE PRINCIPLES DESCRIBED ABOVE HAVE BEEN, OR WILL BE, BROUGHT TO THE ATTENTION OF ALL SUB-CONTRACTORS, SUPPLIERS AND ASSOCIATED COMPANIES PROVIDING SERVICES OR MATERIALS CONNECTED WITH THE TENDER AND ANY CONTRACT ENTERED INTO WITH SUCH SUB-CONTRACTORS, SUPPLIERS OR ASSOCIATED COMPANIES WILL BE MADE ON THE BASIS OF COMPLIANCE WITH THE ABOVE PRINCIPLES BY ALL PARTIES.

I/WE ACKNOWLEDGE THAT ANY BREACH OF THE FOREGOING PROVISIONS SHALL LEAD AUTOMATICALLY TO THIS TENDER BEING DISQUALIFIED AND MAY LEAD TO CRIMINAL OR CIVIL PROCEEDINGS. THE GOVERNMENT OF MONTSERRAT SHALL TREAT ANY TENDER RECEIVED IN CONFIDENCE BUT RESERVES THE RIGHT TO MAKE THE SAME AVAILABLE TO ANY OTHER FUNDING ORGANISATION OR STATUTORY REGULATORY AUTHORITY EITHER HAVING JURISDICTION OVER THE WORKS OR WHO MAY NOW OR AT ANY TIME IN THE FUTURE HAVE STATUTORY POWER TO REQUIRE DISCLOSURE OF THIS TENDER.

IN THIS CERTIFICATE, THE WORD 'PERSON' INCLUDES ANY PERSONS AND ANY BODY OR ASSOCIATION, INCORPORATED OR UNINCORPORATED; ANY AGREEMENT OR ARRANGEMENT INCLUDES ANY TRANSACTIONS, FORMAL OR INFORMAL AND WHETHER LEGALLY BINDING OR NOT; AND 'THE WORK' MEANS THE WORK IN RELATION TO WHICH THIS TENDER IS MADE.

SIGNATURE..... IN CAPACITY OF

DATE.....2016

DULY AUTHORISED TO SIGN TENDERS AND ACKNOWLEDGE THE CONTENTS OF THE ANTI-COLLUSION CERTIFICATE FOR AND ON BEHALF OF:

NAME OF FIRM.....

FULL POSTAL ADDRESS.....

TELEPHONE No..... FAX No

GENERAL CONDITIONS

OF

CONTRACT

**Expansion of Information Communication Technology
in Primary Schools Project**

GENERAL CONDITIONS OF CONTRACT

1 Definitions

- a) The "Contract" means these General Conditions together with the Specification and includes the contract agreement
- b) The "Employer" means the Basic Needs Trust Fund (BNTF)
- c) The "Project Manager" means a duly authorized representative of the Employer
- d) The "Contractor" means the company appointed to carry out the works
- e) The "colony" means the Colony of Montserrat
- f) The "Site" means the lands and/or other places on under or through which Works are to be carried out
- g) The "Works" means the works to be executed in accordance with this Contract as described in the Term of Reference
- h) The "language" of the Contract shall be English
- i) The "Law" applicable to the Contract, shall be the Laws of Montserrat

2 Contract Document - Priority

- 1) Contract Agreement
- 2) Specifications
- 3) Conditions of Contract
- 4) Any other document forming part of the Contract

3 Extent of Contract

The Contract comprises of the construction and completion of all Works described in the Terms of Reference, and to supply all necessary labor, plant and temporary works to complete the described works together with such materials as are required by the Terms of Reference.

4 Power to Vary or Omit

- a) The Employer reserves the right to vary from time to time during the progress of the works, the Terms of Reference and shall in writing, notify the Contractor of such variation. If the instructions are given orally, they shall, within two days be confirmed in writing by the Project Manager, in the event of any such variation involving an alteration in the cost, or in the period required for completion an agreed revision of contract price and/or time of completion may be made, any such alterations should be deemed part of the Contract.
- b) No variation, alteration or addition to the work indicated in the Terms of Reference shall be made unless the written instruction of the employer has been obtained.

5 Assignment of Contract

- 1) The Contractor shall remain responsible to the Employer for workmanship and manner of workmanship defaults and neglects of any sub-contractor or agent or workman employed by him.

6 Supply Materials

- 1) The Contractor shall within the agreed contract price, supply such materials as required and detailed by the Terms of Reference.

7 Measurement

The quantities set out in the Cost Tables in the Terms of Reference are the estimated quantities for the Works, and they are not to be taken as the actual and correct quantities of the Works to be executed by the Contractor in fulfilment of his obligations under the Contract.

The Project Manager shall, except as otherwise stated, ascertain and determine by measurement the value of the Works in accordance with the Contract. The Project Manager shall, when he requires any part of the Works to be measured, give reasonable notice to the Contractor, who shall:

- (a) forthwith attend or send a qualified representative to assist the Project Manager in making such measurement, and
- (b) supply all particulars required by the Project Manager. Should the Contractor not attend, or neglect or omit to send such representative, then the measurement made by the Project Manager or approved by him shall be taken to be the correct measurement of such part of the Works. The Works shall be measured net, notwithstanding any general or local custom, except where otherwise provided for in the Contract.

9 Workmanship

- i. The Contractor shall at all times carry out his works in accordance with the laws of the Colony.
- ii. The Employer may from time during the course of the Contract inspect any completed or part-completed work of the Contractor. If the Employer is not satisfied with such work, he in writing, inform the Contractor of his dissatisfaction.
- iii. Notwithstanding any such progress inspection by the Employer, the Contractor shall at all times carry out the Contract in a workman-like manner. On completion of the works, the Contractor shall satisfy the Employer as to the quality and fitness of the work.

10 Removal of Debris

The Contractor shall remove all debris caused by their work from time to time as it accumulates and shall leave the site clean on completion of the Contracted Works.

11 Supervision of Works and Skilled Workmen

- a) The Contractor shall provide all necessary superintendence during the execution of the works.
- b) The Contractor shall employ in and about the execution of the Works only such persons who are carefully skilled and experienced in their several trades.
- c) The Supervising Officer may (but not unreasonably or vexatiously) issue instructions requiring the exclusion from the Works of any person employed thereon.

12 Contractor's Plant

The Contractor shall provide at their own cost all tools, and other plant necessary for the purpose of carrying out the specified Work in an organized and expeditious manner.

13 Payment Fees

The Contractor shall be responsible for the payment of all fees necessary for the completion of the Contract required by an Statutory Authority within or without the Colony.

14 Safety

- a) The Contractor is responsible for the safety of all persons employed by him.
- b) He shall in no way carry out any work that could be seen to endanger the life of any of his employees or of any member of the general public, including any other employee of the employer.

15 Injury to or death of a person

The Contractor shall be liable for and shall, indemnify the Employer against any expense, liability, loss, claim or proceedings whatsoever arising under any statute or at Common Law in respect of personal injury to or death of any person whomsoever arising out of or in the course of or caused by the carrying out of the Works.

16 Damage to Property

The Contractor shall be liable for and indemnify the Employer against any expense, liability, loss, claim or proceedings in respect of any damage whatsoever to any property real or personal insofar as such damage arises out of or in the course of or by reason of the carrying out of the Works and is due to any negligence, omission and default of the Contractor is responsible.

17Evidence of Insurance

The Contractor shall produce such evidence as the Employer may reasonably require that the insurance's referred to herein have been taken out and are in force at all material times.

18Traffic Control

Due to the nature of the Works it will be the responsibility of the Contractor to ensure that a system of traffic control is in operation, including no vehicular access, if necessary.

19Certificates & Payment to the Contractor

Payment to the Contractor will be made after the issue of an Project Manager's certificate based on the amount of work completed to date. A retention of 5% will be held from the value of each certificate. Such retention money will be released at the end of the warranty period provided that all works and repairs have been executed to the satisfaction of the employer.

20Warranty Period

A warranty period of 6 months is part of the Contract agreement, during which time the Contractor bears the full responsibility for the execution of maintenance of the works and any repair or correction which might become necessary due to the failure and incorrect performance of the Contractor.

21Handing Over Completed Works

The Contractor shall notify the Employer in writing of his completion of the contracted Works. Said work shall be subject to the satisfaction of the employer and the statutory body having jurisdiction that all the works is completed and in good order. The supervising Officer shall certify the date when in his opinion, the works have reached practical completion. This date shall be the date of commencement of the warranty period.

22Failure to Meet Completion Date

Should the contractor fail to complete the contracted works within the agreed time he shall be subject to a fine of 1% of the contract price a day, for every day the completion is overdue.

23Matters not Contained in the Contract

Any matter not explicitly provided for within this Contract shall be in the matter of a separate agreement between the Employer and Contractor. Any such agreement shall be part of his Contract.

24Matter of Disagreement

If in the execution of this Contract any matter arises that cannot be agreed on by the Contractor and the Employer, the matter shall be referred to an arbitrator agreed on by both parties. Should both parties fail to agree on an arbitrator, the provisions of the arbitration act shall apply. Each party shall bear its own cost in arbitration proceedings.

25 Contracts Documents

- a) The Contractor shall receive two complete copies of Contract Documents
- b) Subsequent to the commencement of the Contract, the Contractor shall receive a copy of all additions to and amendments to the Specifications if required.

26 DETERMINATION OF THE CONTRACT

1) Default by the Contractor

If, before the date for practical completion, the Contractor shall make a default in any one or more of the following respects:

- a) Without reasonable cause he wholly or substantially suspends the carrying out of the works, or
- b) He fails to proceed regularly or diligently with the works, or
- c) He refuses or neglects to comply with a written instruction given by the Project Manager and by such refusal or neglect the works are materially affected

The Project Manager may give to the Contractor a notice specifying the default or defaults.

If the Contractor continues with the default for 14 days from the issue of the notice under the contract the Employer may by a further notice to the Contractor determine the employment of the Contractor under this Contract. Such determination shall take effect on the date of receipt of such further notice.

A notice of determination shall not be given unreasonably or vexatiously.

2) Consequences of determination under clause 25 .i.

The Project Manager shall determine the amount due to the Contractor which shall include loss, damage or expenses incurred by the Employer as a direct consequence of the determination. A final payment certificate will be prepared accordingly.

3) Determination by the Contractor or Employer

If, before the date of practical completion, the carrying out of the whole or substantially the whole of the uncompleted works is suspended by reason of one or more of the events stated below for a period of three months or more

- a) Force majeure, or
- b) The Project Managers instruction

Then the Contractor or the Employer may upon expiry of the period of the

Suspension give notice to the other that unless suspension is terminated within 7 days after the receipt of such notice.

The Employer shall pay to the Contractor, the total value of the work properly executed at the date of determination of the employment of the Contractor, such value ascertained in accordance with the conditions as if the employment of the Contractor had not been determined

A notice of determination shall not be given unreasonably or vexatiously.

27SUSPENSION OF THE UNCOMPLETED WORKS

a) The Project Manager may issue instructions in regard the postponement of any or all the works to be executed under this contract.

TERMS OF REFERENCE

Technical Assistance and Support to the Government of Montserrat in the Expansion of ICT in Primary Schools

1.0 BACKGROUND

- 1.1 The Basic Needs Trust Fund (BNTF) is the Caribbean Development Bank's (CDB) flagship poverty reduction programme operating in ten Borrowing Member Countries (BMCs) including Montserrat for over 30 years. The overall objective of the BNTF is to reduce poverty and vulnerability through enhanced access to basic social services and economic infrastructure and human resource development services.
- 1.2 The Basic Needs Trust Fund Office in Montserrat is implementing the Seventh Cycle of the BNTF Programme. The Programme focuses on three key sectors to include the Education and Human Resource Development Sector. This Sector is key to Montserrat achieving its Sustainable Development Plan Strategic Goal **"Enhanced human development and improved quality of life of all people on Montserrat"** particularly the objective **"A well developed and effective education and training system, that produces well-rounded, and qualified life-long learners."**
- 1.3 The Ministry of Education is keen to create a modern teaching and learning environment. It believes that such an environment is critical to staff and student motivation. It will also enable them to operate at higher standards; encourage innovation and better prepares them for the world.
- 1.4 The use of ICT is limited in the management, and delivery of teaching and learning within primary schools despite the fact that ICT development and implementation were key strategies in the 2002-2007 Education Development Plan.
- 1.5 Access to ICT services is essential to the school environment as it has the potential to provide a platform from which more educational resources can be accessed and shared.

2.0 CONTEXT

- 2.1 The MoE has one ICT support personnel who provides technical support, monitors the use, and maintains ICT resources at all public schools.
- 2.2 The Education Development Plan (EDP) supports the upgrading of ICT access and capability for teaching, learning and administration" as a key sub-objective.

Look Out Primary School

- 2.3 The Look Out Primary School (LOPS) has undergone major infrastructure work under the LOPS Expansion Project but does not have wifi and network capability to utilize ICT in all learning spaces. The work has not been completed although all of the buildings are currently in use. The older part of the school (B1, B2, and B3) has been reconfigured as follows:
- 2.4 B1 and B2 has 4 classrooms as opposed to the previous 6;
- 2.5 B3 is reformatted into two specialist rooms (Dance and Sewing), a language lab, a Mathematics lab and a resource room; Unfortunately, this portion of the school (B1, B2, B3) has no provision for internet access in any of its spaces.
- 2.6 B5 is a new wing which houses one (1) computer lab, 1 science lab, 1 library, 3 classrooms, 1 office and staff lounge. This wing has some limited provision for networking, in that access points have been provided and some cables have been run in conduits.
- 2.7 Provision is made within the computer lab for a server room. The computer lab is not operational due to the absence of an air conditioning unit, and wifi and network capability to utilize ICT.
- 2.8 B6 is a new wing which serves as a hall/dining room but is intended to double as a sports hall, a training room and a facility which the community can have access to. It has limited provision for networking.
- 2.9 A server is procured and on site (DELL INTEL XEON E3-1220 8GB MEMORY; 2#500GB HD; SERVER 2012 VSTANDARD)
- 2.10 28 new desktop computers (DESK TOPS: DELL INTEL CORE i3-3220 DUAL CORE 3.30 GHZ; 2GB ; 1600MHZ; 16X DVD ROM; 250GB MEMORY;) have been procured and is to be deployed as follows:
21 computers for deployment in the computer lab
7 computers to be set up in the classrooms (1 in each)
- 2.11 Two interactive white boards (IWB) have been procured and are on site. They too will need to be installed and configured in the computer lab and science lab;

BRADES Primary School

- 2.12 The Brades Primary School (BPS) has an ICT lab with wired internet access but with no adequate computers. The replacement of these machines is not covered under this works but their installation and configuration will be.

- 2.13 In addition, the office at the school has internet access but there is almost no internet access in the various learning spaces throughout the school.

3.0 PURPOSE

- 3.1 To design, install, and configure a computer network at Look Out Primary School and at Brades Primary School

4.0 REQUIRED WORKS

General

- 4.1 It must be noted that for consistency, the required works at the two primary schools is expected to be a single contract.
- 4.2 The Ministry has access to the services of a technician whose responsibility it is to manage the minor service needs of the Ministry but central government has a Department of Technology and E-Services (DITES) which is charged with oversight of all of government's e-services provisioning. The successful Contractor will need to collaborate with DITES personnel and also to work closely with the Ministry's technician to ensure that he can administer the networks when the contract has been delivered.
- 4.3 The Ministry prefers to use existing conduits where these are available. It strongly opposes overhead cabling and prefers underground works. We recommend underground cabling between buildings. Where underground works are necessary, and approved, the contractor will be responsible for making good any damage done as a result.
- 4.4 The Contractor must be available to trouble shoot the networks and solve networking problems for a period of 6 months beyond the end of the contract. To that end a portion of the final contract fee will be retained for a period of 6 months.
- 4.5 The wooden buildings on the Brades school compound are not to be included in the networking other than to allow access through wireless capability.
- 4.6 Design ICT network at Brades and Look Out Primary Schools.
- 4.7 Provide inventory of all hardware/network/telecom equipment and software at both schools.
- 4.8 Procure and install surveillance cameras in server rooms and computer labs at both schools.
- 4.9 Procure twenty-two (22) laptops to be used by Teachers with the IWBs and technician.
- 4.10 Test and commission network and equipment.

- 4.11 Design and deliver training to teachers and education personnel on use of equipment.

Brades Primary School

- 4.12 Install wireless internet access points at Brades Primary School to provide internet access to the entire compound with a capacity to manage access of up to fifty (50) devices simultaneously;
- 4.13 Install a server based network which will be accessed by hard wiring and also wirelessly;
- 4.14 The following services must be provided by the servers;
- a. An application server for the IWBs
 - b. As a file server for document storage
 - c. As webserver for internet security and child safety
 - d. As a domain controller to manage access to the network
- 4.15 Install Internet access points in Twelve (12) learning spaces. There will be 3 access points in every learning space, one for the teacher and at least 2 for student use;
- 4.16 Procure and install eight (8) interactive white boards (IWBs) and speakers, one (1) at the ICT lab and in seven (7) classrooms;
- 4.17 Select and configure an appropriate space to be used as a server room;
- 4.18 Hide and secure data and electric cables in the computer lab;

Look Out Primary School

- 4.19 Assemble, install and configure all of the computers as described above;
- 4.20 Advise on the need for additional servers taking into consideration cloud technology;
- 4.21 Assist with the procurement of additional servers (if required) and other needed equipment such as switches, routers etc;
- 4.22 Install, set up and configure the server/s to ensure full connectivity by all computers. The following services should be provided by the server/s;
- a. An application server for the IWBs
 - b. As a file server for document storage
 - c. As webserver for internet security and child safety

d. As a domain controller to manage access to the network

- 4.22 Install Internet access points in seventeen (17) rooms to include 7 classrooms, science lab, library, computer room, dance room, printing room, mathematics lab, language room, SEN Room, hall and counselling room. There will be 3 access points in every learning space, one for the teacher and at least 2 for student use.
- 4.23 Procure and install six (6) IWBs and speakers in the rooms indicated such that they can be run from the server. The following is recommended: SMART Board 600i interactive whiteboard system
<https://smarttech.com/Solutions/Higher+Education+Solutions/Products+for+higher+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards/SMART+Board+600i>
- 4.24 Install wireless internet access points at LOPS to provide internet access to the entire compound with a capacity to manage access of up to fifty (50) devices simultaneously;

5.0 PREPARATION OF TENDERS

- 5.1 The tenderers will need to consult with the plans for both schools and those will be supplied as a part of their RFP. However the Ministry is prepared to provide access to the school plans to facilitate the preparation of submissions.

5.2 Cost Tables

5.2.1 Look Out Primary School

| | ITEM DESCRIPTION | LABOUR COSTS | MATERIAL /EQUIPMENT/ /HARDWARE COSTS | CONTINGENCY COSTS |
|---|--|--------------|---|-------------------|
| A | NETWORK DESIGN | | | |
| B | ESTABLISHING ETHERNET POINTS (incl wiring trunking, ducting and termination) | | | |
| C | COMPUTER (incl server/s) ASSEMBLY INSTALLATION AND CONFIGURATION | | | |
| D | NETWORK IMPLEMENTATION (switches, routers) | | | |
| E | PROCURE AND INSTALL IWBS, SPEAKERS& CAMERAS | | | |
| F | INSTALL WIRELESS INTERNET ACCESS POINTS | | | |
| G | TEST & COMMISSION OF EQUIPMENT | | | |
| H | DESIGN AND DELIVER TRAINING TO TEACHERS AND EDUCATION PERSONNEL | | | |
| I | PROCURE 11 LAPTOPS | | | |
| | <u>TOTAL</u> | | | |

5.2.2 Brades Primary School

| | ITEM DESCRIPTION | LABOUR COSTS | MATERIAL /EQUIPMENT /HARDWARE COSTS | CONTINGENCY COSTS |
|---|--|--------------|-------------------------------------|-------------------|
| A | NETWORK DESIGN | | | |
| B | ESTABLISHING ETHERNET POINTS (incl wiring trunking, ducting and termination) | | | |
| C | COMPUTER (incl server/s) ASSEMBLY INSTALLATION AND CONFIGURATION | | | |
| D | NETWORK IMPLEMENTATION (switches, routers) | | | |
| E | PROCURE AND INSTALL IWBS & CAMERAS | | | |
| F | INSTALL WIRELESS INTERNET ACCESS POINTS | | | |
| G | TEST & COMMISSION OF EQUIPMENT | | | |
| H | DESIGN AND DELIVER TRAINING TO TEACHERS AND EDUCATION PERSONNEL | | | |
| I | PROCURE 11 LAPTOPS | | | |
| | <u>TOTAL</u> | | | |

- 5.3 Tenderers should take note that all submissions will be arithmetically checked for anomalies and where these arise. Tenderers will be given an opportunity to re-check their submission for arithmetical accuracy or whether they wish to stand by the original submission.

6.0 **TIME FOR THE COMPLETION OF THE WORKS**

- 6.1 It is expected that the works will be completed within a 6 month period. Ideally the works at both schools should be done simultaneously but if not, the works should be completed firstly at LOPS.
- 6.2 It should be noted that as school will be in normal operation, there will be restrictions on the movement and work of the contractor, hence it is anticipated that much of the work will be conducted during the weekends and evenings.
- 6.3 The Contractor must be available to trouble shoot the networks and solve networking problems for a period of 6 months beyond the end of the contract for a period. An amount not exceeding 5% of contract fee will be held as retention for a period of six months. Retention will be paid on successful completion of contract.

7.0 SKILLS AND EXPERIENCE OF THE CONTRACTOR

- 7.1 The Contractor must demonstrate that he/she has the skills and experience to undertake the project. In addition to qualifications and experience, the contractor must show evidence of similar projects undertaken.

8.0 DELIVERABLES

- 8.1 Submission of tender to include:

- ✦ A work plan for the completion of the works within 5 days of the commencement of the contract;
- ✦ Network designs for the schools in accordance with the desired outcomes described above which meets the approval of the Ministry within 2 weeks of the commencement of the contract;
- ✦ A list with procurement details of the required hardware and other peripheral equipment;
- ✦ A final report and a manual on the completion of the project, its configuration and capabilities
- ✦ A 3-hour training program per school (in 3 installments) for the adult users (teachers and education personnel) at each school
- ✦ A maintenance plan in respect of the critical pieces of equipment

9.0 EVALUATION OF TENDERS

- 9.1 Tenderer should note that companies or individuals which are not in compliance with government's tax compliance regulations will immediately be rendered as non-compliant and their tenders will be discarded immediately. This compliance issue applies only to individuals or companies which are based in Montserrat.

- 9.2 All tenders will be evaluated on a 5 point scale on the following specific substantial elements where 5 points are awarded for excellent quality and 0 points is awarded for non-responsiveness. The following list represents the importance government attaches to the various elements and will be weighted accordingly.

- ✦ the training and experience of the tenderer. In the case where tenders are submitted by a company, a partnership or an individual, only the experience of the principal will be evaluated;
- ✦ the technical feasibility of the network design;
- ✦ the quality of the advice given in terms of network design, equipment/hardware specifications, to include value for money;
- ✦ the feasibility of the work plan and delivery schedule;
- ✦ the capacity to troubleshoot and provide support over a six month period following the end of the contract period;
- ✦ the design of the training program;
- ✦ the completeness and of the maintenance plan;
- ✦ the length of time it takes to complete the works;

10.0 SUBMISSION OF TENDER

- 10.1 The tender package comprised of the submitted tender and all required supporting documents shall be enclosed into **inner and outer envelopes**. The inner envelope shall contain the tender package being submitted by the Tenderer. The inner envelope shall then be inserted into the outer envelope which shall bear the words “**Tender for Expansion of ICT in Primary Schools**”, must be received not later than 2p.m. Wednesday, July 27th, 2016. There shall be no indication of the identity of the sender or Tenderer on the outer envelope.

Tender opening will take place immediately after the deadline for submission at the second address below in the presence of tenders representatives who choose to attend. Responses must include an itemized cost as per 5.2 a cost per school, a total cost, and a payment schedule.

| 1. | Address for Correspondence | 2. | Address for Tender Submission and Tender Opening |
|----|--|----|--|
| | Mervin Browne Project Manager Basic Needs Trust Fund Office Robert W. Griffith Drive Little Bay Montserrat Montserrat | | The Chairman Public Procurement Board Ministry of Finance and Economic Management Government Headquarters Brades Montserrat |

Appendix

I

Plans for Brades Primary School

PWD

Public Works
Department
Ministry of
Communications
& Works

P.O. Box 344
Montarrot
West Indies
T: (664) 491-6611
F: (664) 491-6659
govrche@gov.ms

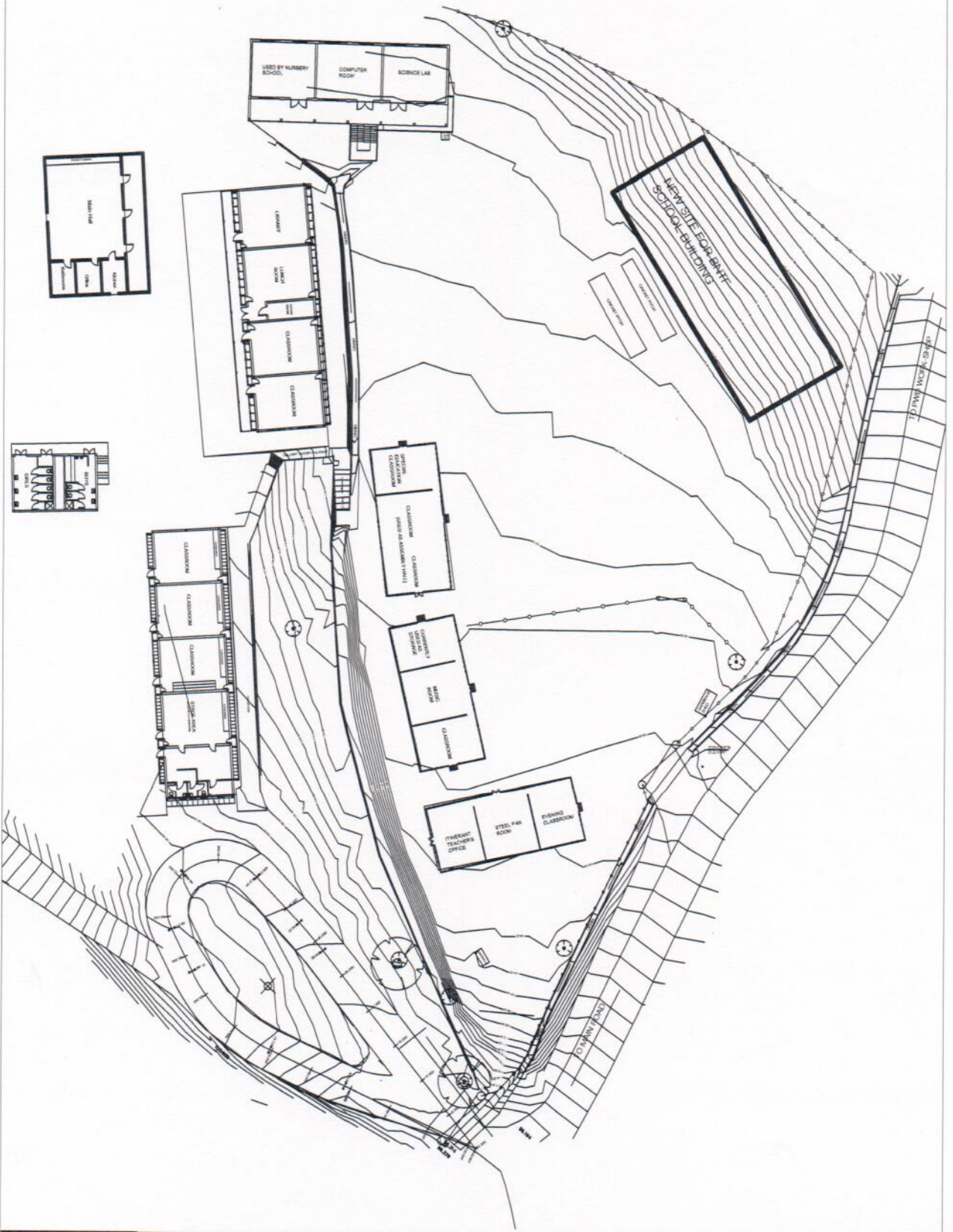
Revisions

| Rev | Date | Description |
|-----|----------|-------------|
| 1 | 11/11/08 | |

PROJECT
BRADES PRIMARY
SCHOOL

DRAWING
Site Map

| | |
|-------------|----------|
| PROJECT NO. | P-091 |
| DATE | 21.11.08 |
| SCALE | 1:500 |
| DRAWN BY | AL-01 |
| CHECKED BY | REV: - |



PWD

Public Works
Department
Ministry of
Communications
& Works

P.O. Box 344
Nassiriyah
Iraq
T: (654) 491-6611
F: (654) 491-6659
gwerch@pww.mn

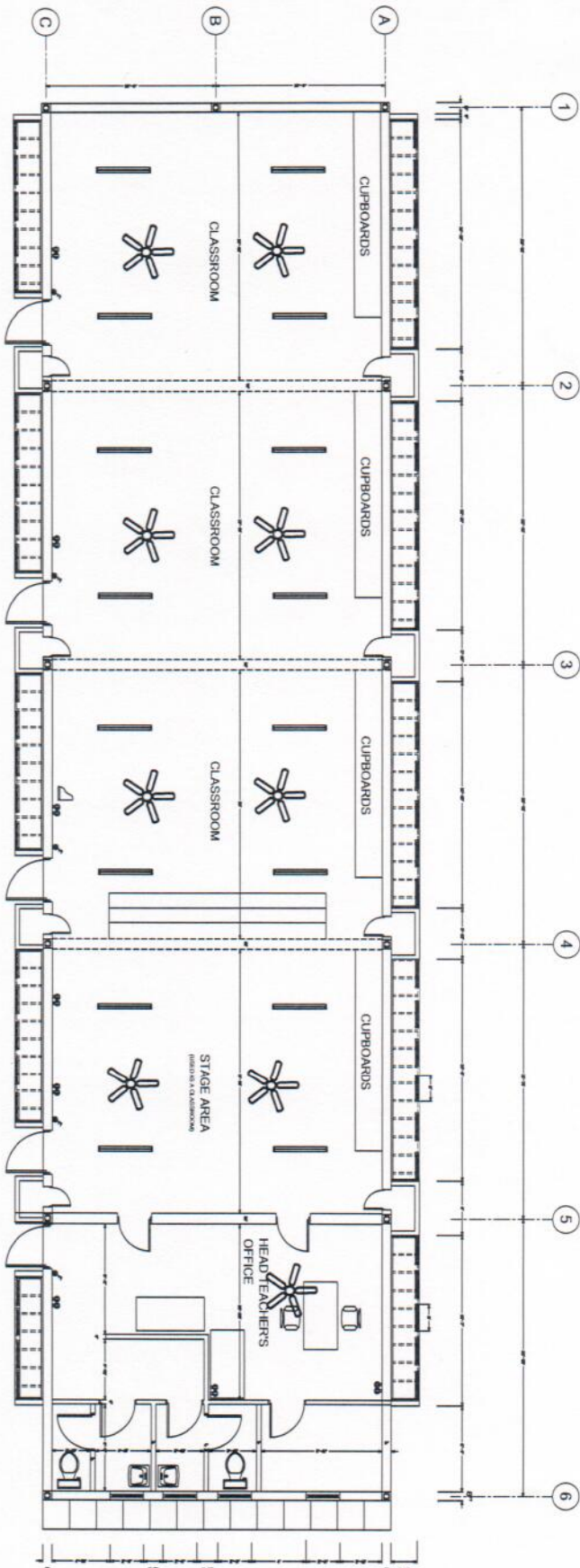
Revisions

| Δ | Date | Description |
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PROJECT
BRADES PRIMARY
SCHOOL

DRAWING
BUILD.-1
MAIN-HALL
FLOOR PLAN

PROJECT NO.
DATE
21.11.08
SCALE
1/8"=1'-0"
DRAWN BY
CME
CHECKED BY
REV. -
DRAWING NO.
A-101



HEAD TEACHER'S OFFICE AND CLASSROOMS (MAIN HALL)

PWD

Public Works
Department
Ministry of
Communications
& Works

P.O. Box 344
Mentmore
Westville
T: (664) 491-6611
F: (664) 491-6659
govt@p.gov.ms

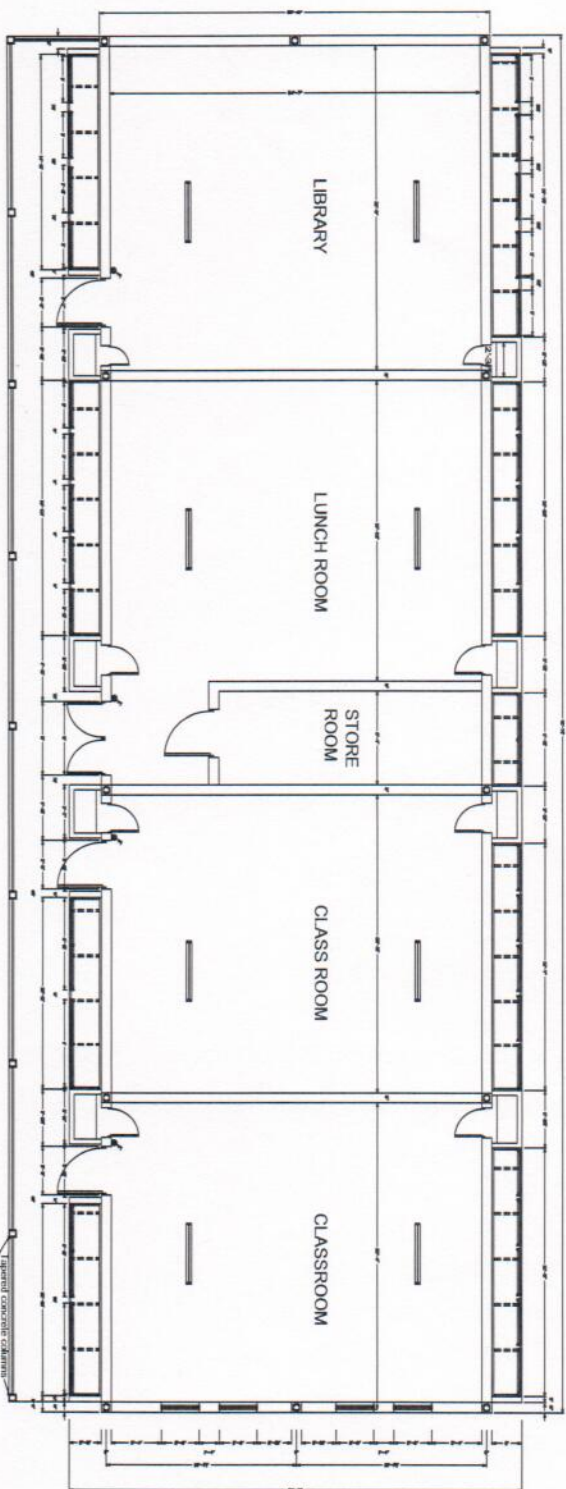
Revisions

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| 1 | 21.11.08 | Final |

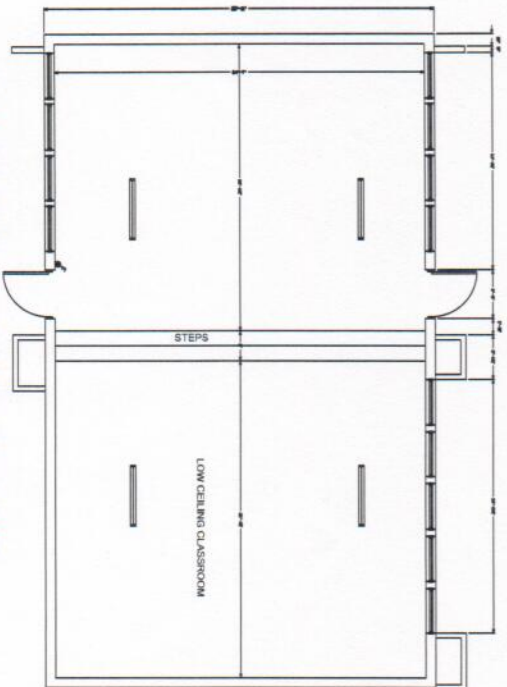
PROJECT
BRADES PRIMARY
SCHOOL

DRAWING
BUILD-2
FLOOR PLANS

| | |
|-------------|--------------|
| PROJECT NO. | 1-091 |
| DATE | 21.11.08 |
| SCALE | 1/8" = 1'-0" |
| DRAWN BY | CAE |
| CHECKED BY | REV: - |
| DRAWING NO. | A-201 |



UPPER FLR - GRADE K & LUNCH RM



LOWER FLR - SPECIAL ED. UNIT

PWD

Public Works
Department
Ministry of
Communications
& Works

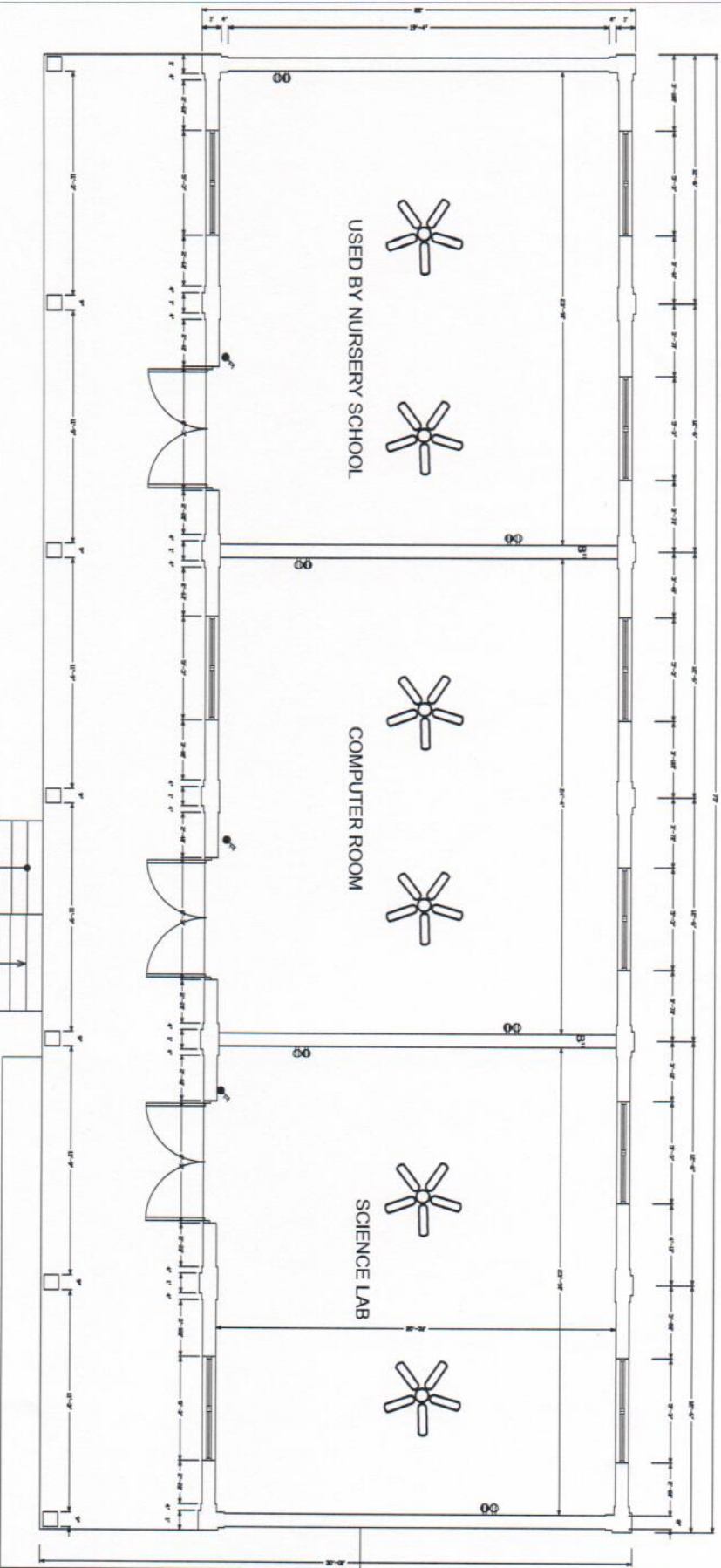
P.O. Box 344
Montenrot
West Indies
T: (664) 491-6611
F: (664) 491-6659;
govarch@gov.ms

Revisions

| A | Date | Description |
|-----------------------|------|-------------|
| PROJECT | | |
| BRADES PRIMARY SCHOOL | | |

DRAWING
BUILD.-3
GROUND FLOOR
PLAN (COMP.RM &
SCIENCE LAB)

| | |
|-------------|-------------|
| PROJECT NO. | P-081 |
| DATE | 21.11.06 |
| SCALE | 3/16"=1'-0" |
| DRAWING NO. | A-301 |
| DRAWN BY | CMR |
| CHECKED BY | REV: - |



GROUND FLOOR

PWD

Public Works
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Ministry of
Communications
& Works

P.O. Box 344
Montserrat
West Indies
T: (664) 491-6611
F: (664) 491-6659
gov.mt@gov.mt

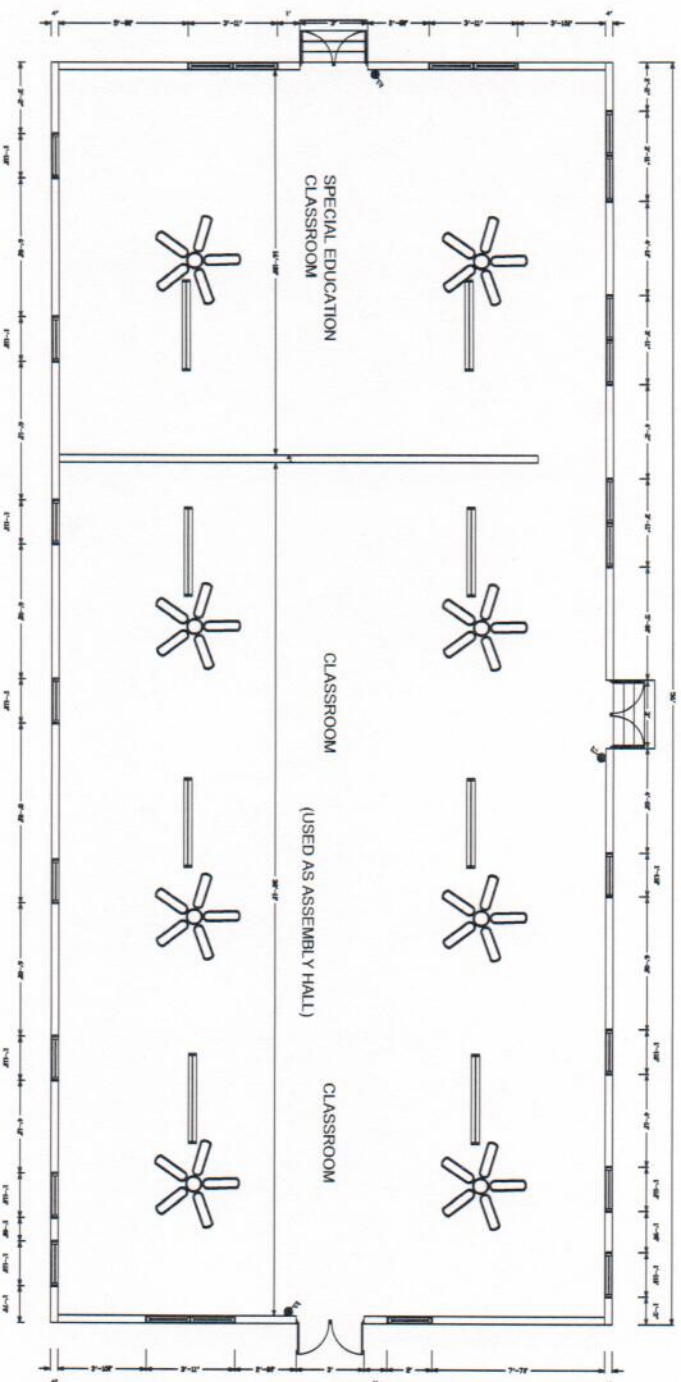
Revisions

| A | Date | Description |
|---|-------|-------------|
| 1 | 1-1-1 | |

PROJECT
BRADES PRIMARY
SCHOOL

DRAWING
BUILD.-4
WOODEN FRAMED BUILDING 1
(SPECIAL ED CLASSROOM
& ASSEMBLY HALL)

| | |
|-------------|-------------|
| PROJECT NO. | P-091 |
| DATE | 21.11.08 |
| SCALE | 3/16"=1'-0" |
| DRAWN BY | CAR |
| CHECKED BY | |
| REV. | - |
| DRAWING NO. | A-401 |



WOODEN FRAMED BUILDING 1

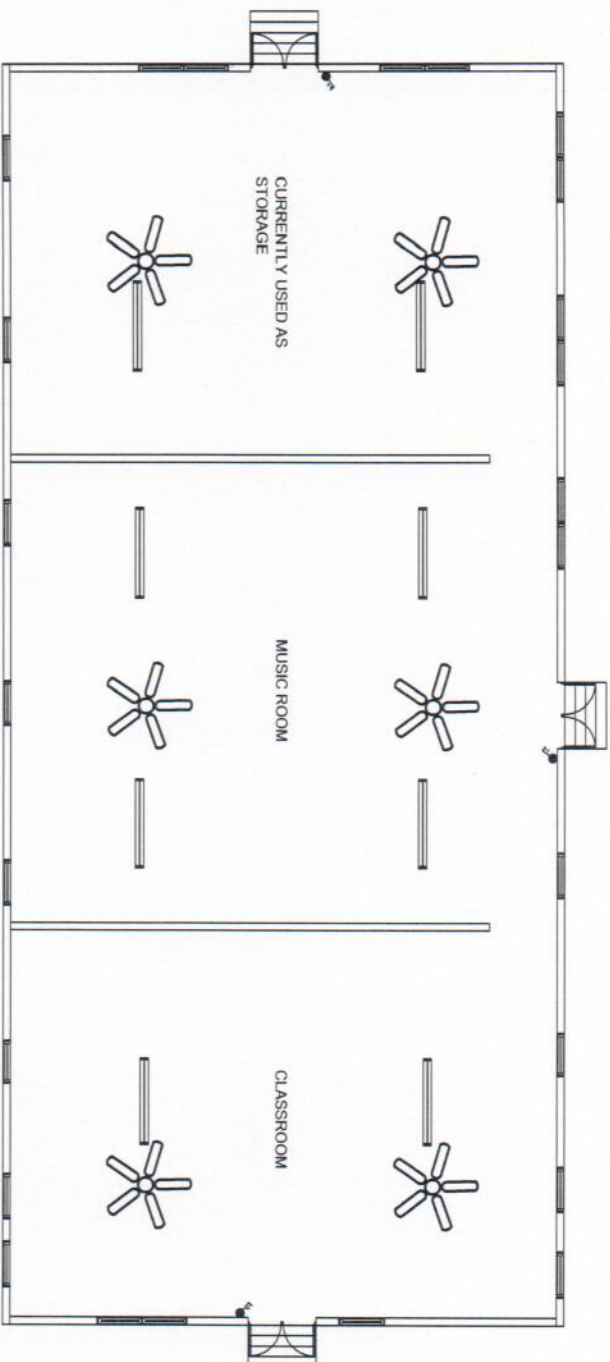
Revisions

| Δ | Date | Description |
|---|----------|-------------|
| 1 | 21.11.08 | |

PROJECT
BRADES PRIMARY
SCHOOL

DRAWING
BUILD-5
WOODEN BUILDING 2
(MUSIC RM &
CLASSROOM)

| | |
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| PROJECT NO. | P-091 |
| DATE | 21.11.08 |
| SCALE | 3/16"=1'-0" |
| DRAWING NO. | A-402 |
| DRAWN BY | car |
| CHECKED BY | REV: - |



WOODEN FRAMED BUILDING 2

PWD

Public Works
Department
Ministry of
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& Works

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Monserrat
West Indies
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govarch@gov.ms

Revisions

| Δ | Date | Description |
|---|----------|-------------|
| 1 | 11-11-08 | |

PROJECT
BRADES PRIMARY
SCHOOL

DRAWING
BUILD.-6
WOODEN FRAMED BUILDING 3
(EVENING CLASSROOM /
STEEL PAN ROOM /
ITINERANT TEACHERS
OFFICE)

PROJECT NO.
P-091

DATE
21.11.08

SCALE
3/16"=1'-0"

DRAWING NO.
A-403

DRAWN BY
CHK
CHECKED BY
REV: -



WOODEN FRAMED BUILDING 3

PWD

Public Works
Department
Ministry of
Communications
& Works

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Montserrat
West Indies
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F: (664) 491-6659;
govarch@gov.ms

Revisions

| Δ | Date | Description |
|---|------|-------------|
|---|------|-------------|

PROJECT

BRADES PRIMARY
SCHOOL

GRADES 6 BLCK

DRAWING

Lower Floor

PROJECT NO.

P-091

DATE

21.11.08

SCALE

N.T.S.

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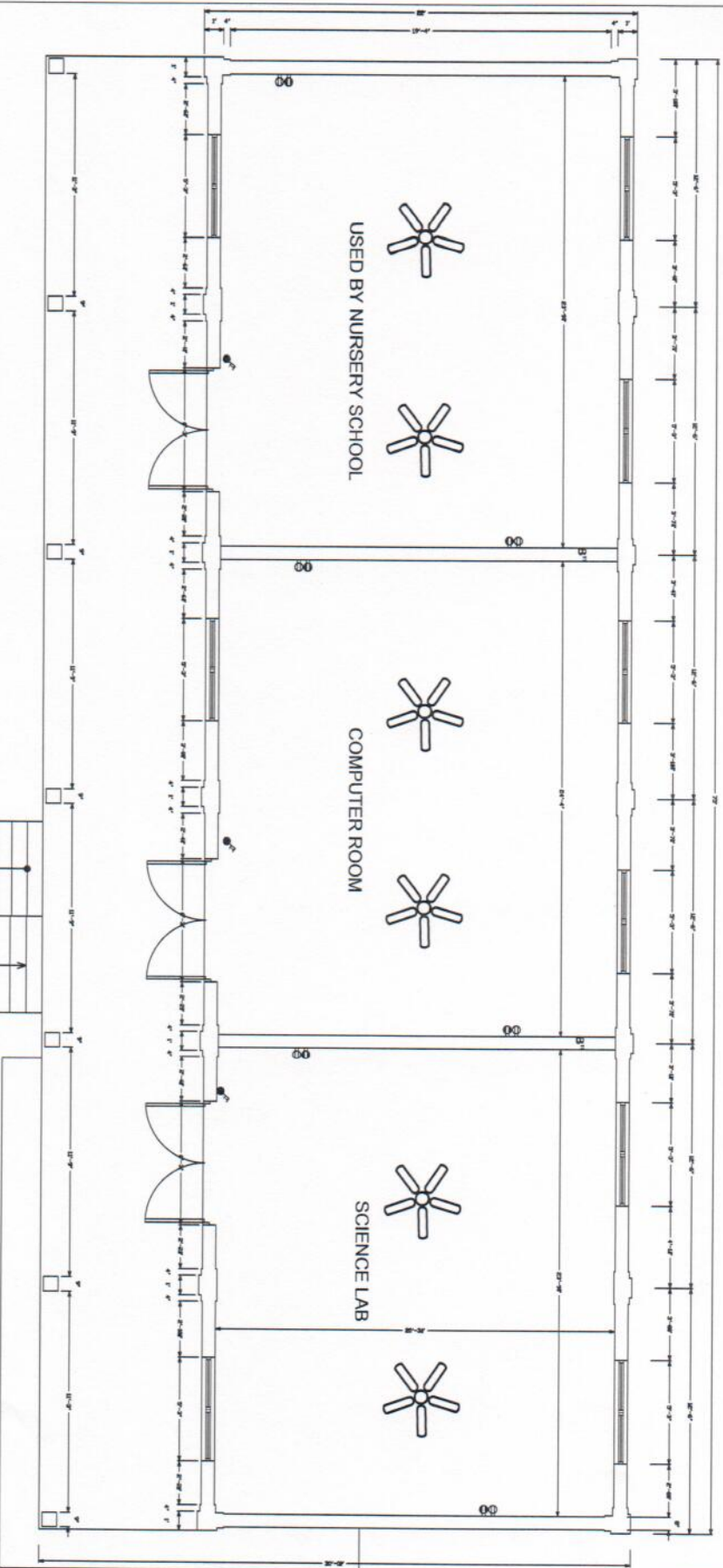
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REV. -

DRAWING NO.

A-9



LOWER FLOOR

PWD

Public Works
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Ministry of
Communications
& Works

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West Indies
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F: (664) 491-6659
govarch@gov.ms

Revisions

| Rev | Date | Description |
|-----|----------|-------------|
| 1 | 11/11/08 | |

PROJECT
BRADES PRIMARY
SCHOOL

Grade 6 BLOCK

DRAWING

Upper Floor

PROJECT NO.
P-091

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21.11.08

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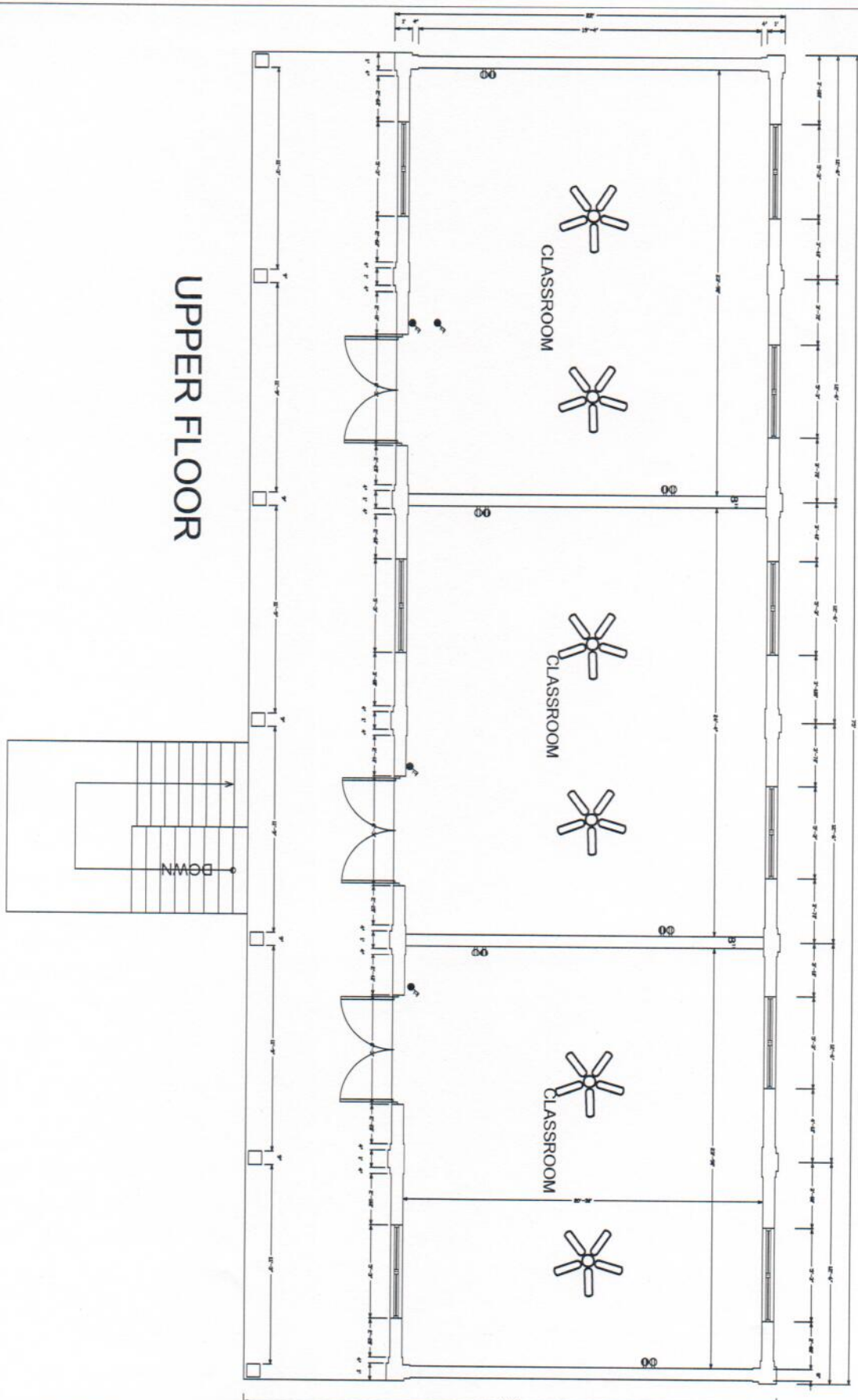
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OKM

CHECKED BY

REV. -

DRAWING NO.
A-10

UPPER FLOOR



P.O. Box 344
Montserrat
West Indies
T: (664) 491-66
F: (664) 491-66
E: govorch@gov.mn

Revisions

| A | Moq./Yr./Pr | |
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[illegible]PROJECT
Brades Prima
School

ORIENTED
Building 7
First Floor Plan

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| PROJECT NO. | |
| DATE | |
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| REV. | |

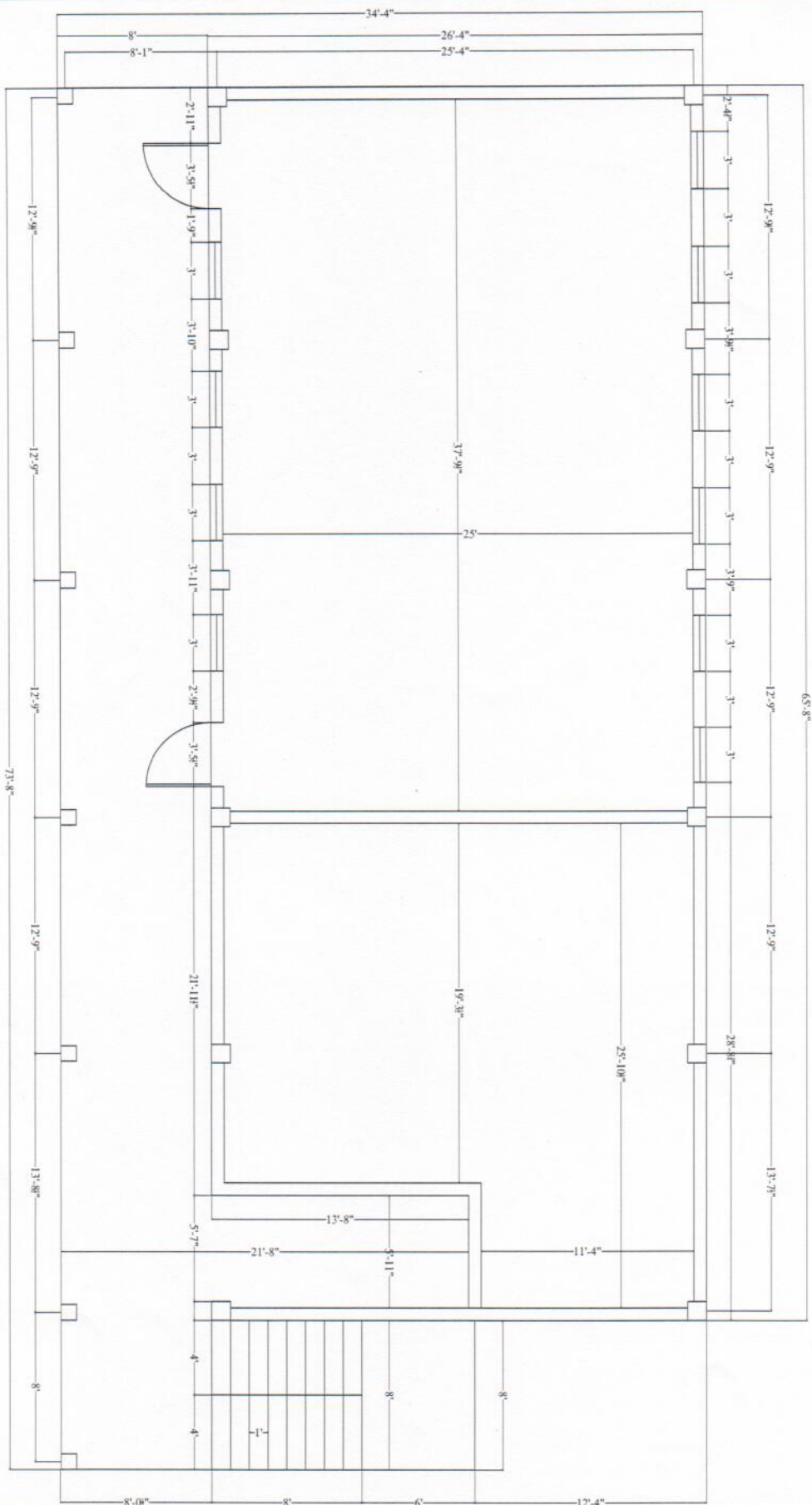
P.O. Box 344
Monticello
West Indies
T: (664) 491-66
F: (664) 491-66
E: govorch@gov.ni

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[illegible]Brades Prima
School

DRAWING
 Building 7
 Ground Floor F

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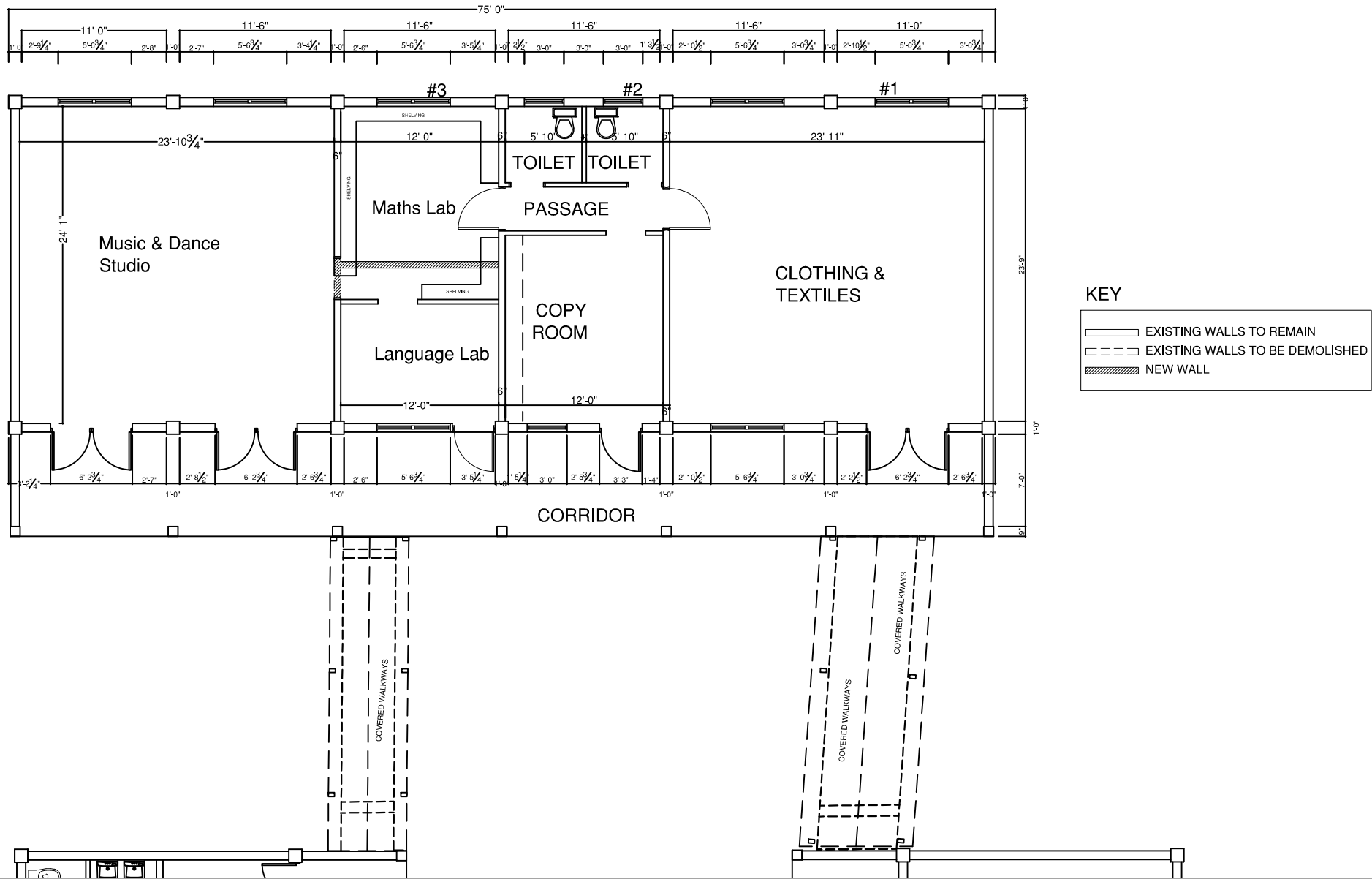
BRADES SCHOOL
BUILDING⁷
GROUND FLOOR PLAN


Appendix

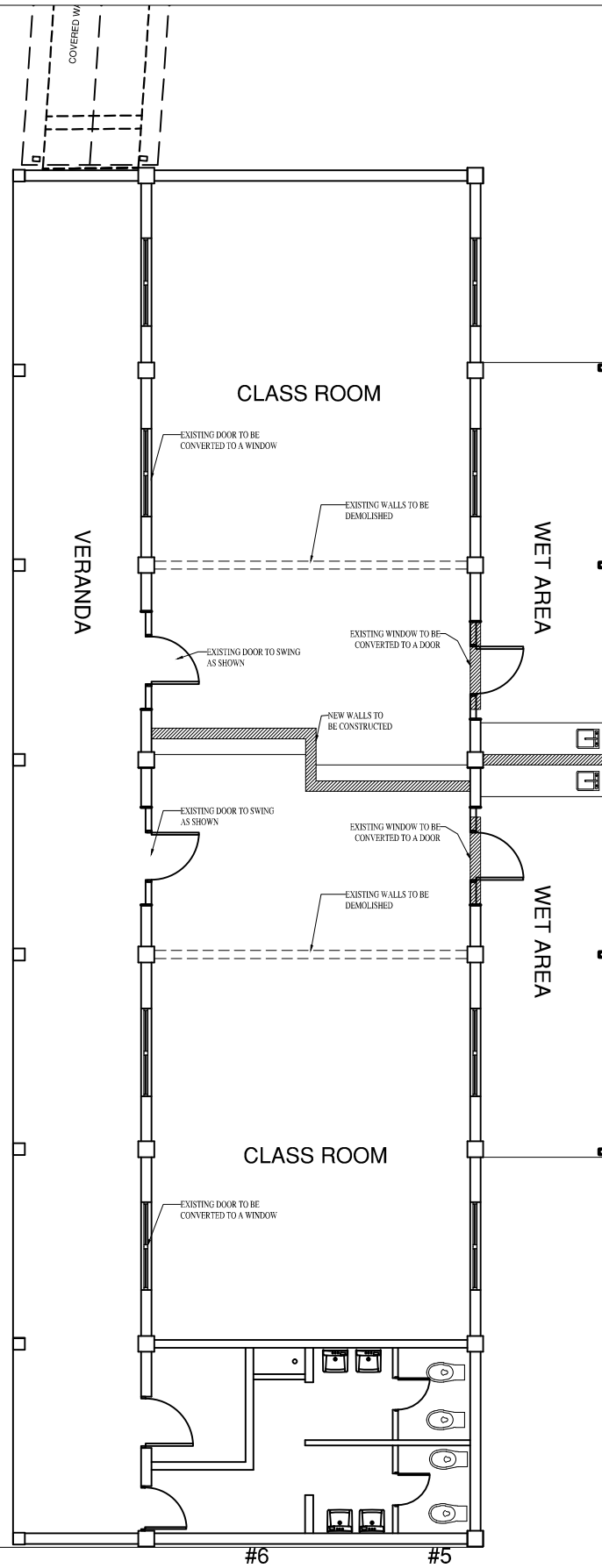
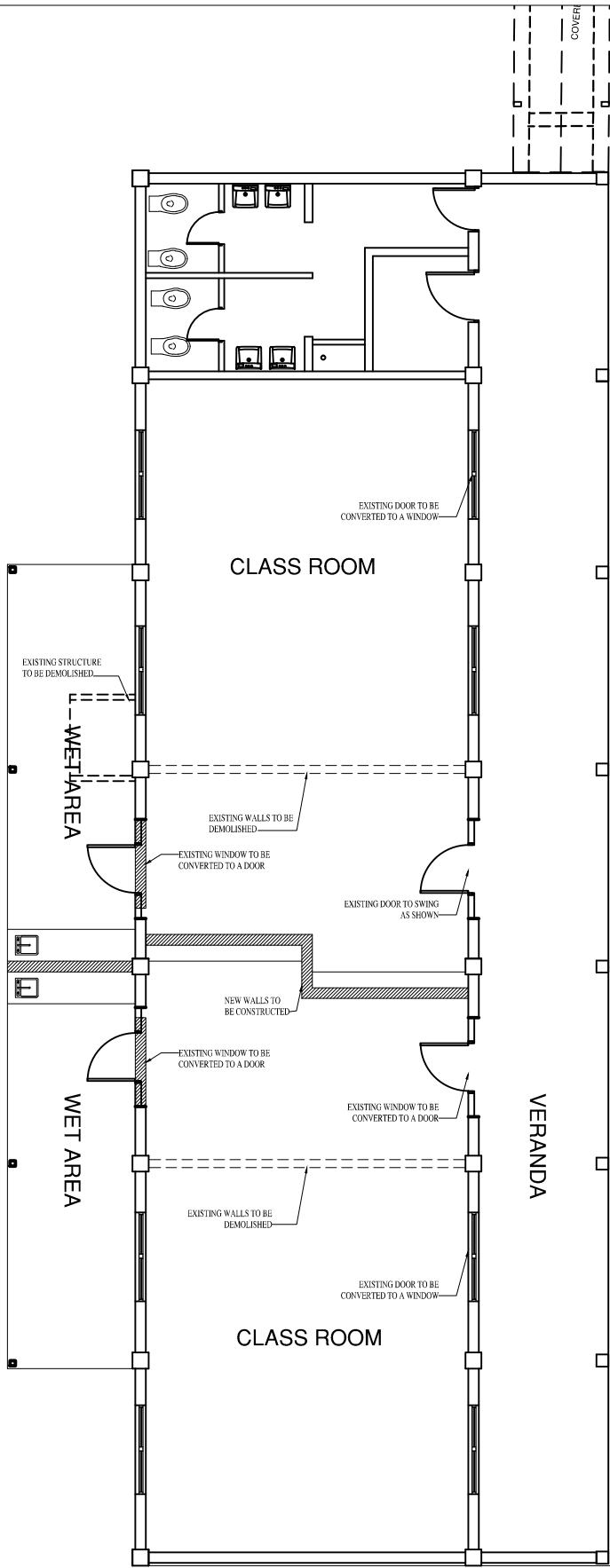
II

Plans for Look Out Primary School

LOOK OUT PRIMARY SCHOOL COMPLEX




| GENERAL NOTES | | | | |
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| | | | | |
|  | | Public Works Department P.O. Box 344 Montserrat West Indies Tel: 664- 491- 6611 Fax: 664- 491- 6659 | | |
| PROJECT: LOOKOUTPRIMARYSCHOOL | | | | |
| TITLE: FLOORPLAN1 | | | | |
| DESIGN: P.W.D | | | | |
| DRAWN: SILCOTTR | | | | |
| CHECKED: . | | | | |
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| | | SHEET NO.: | | |
| DATE: 13.02.08 | | R-01 | | |
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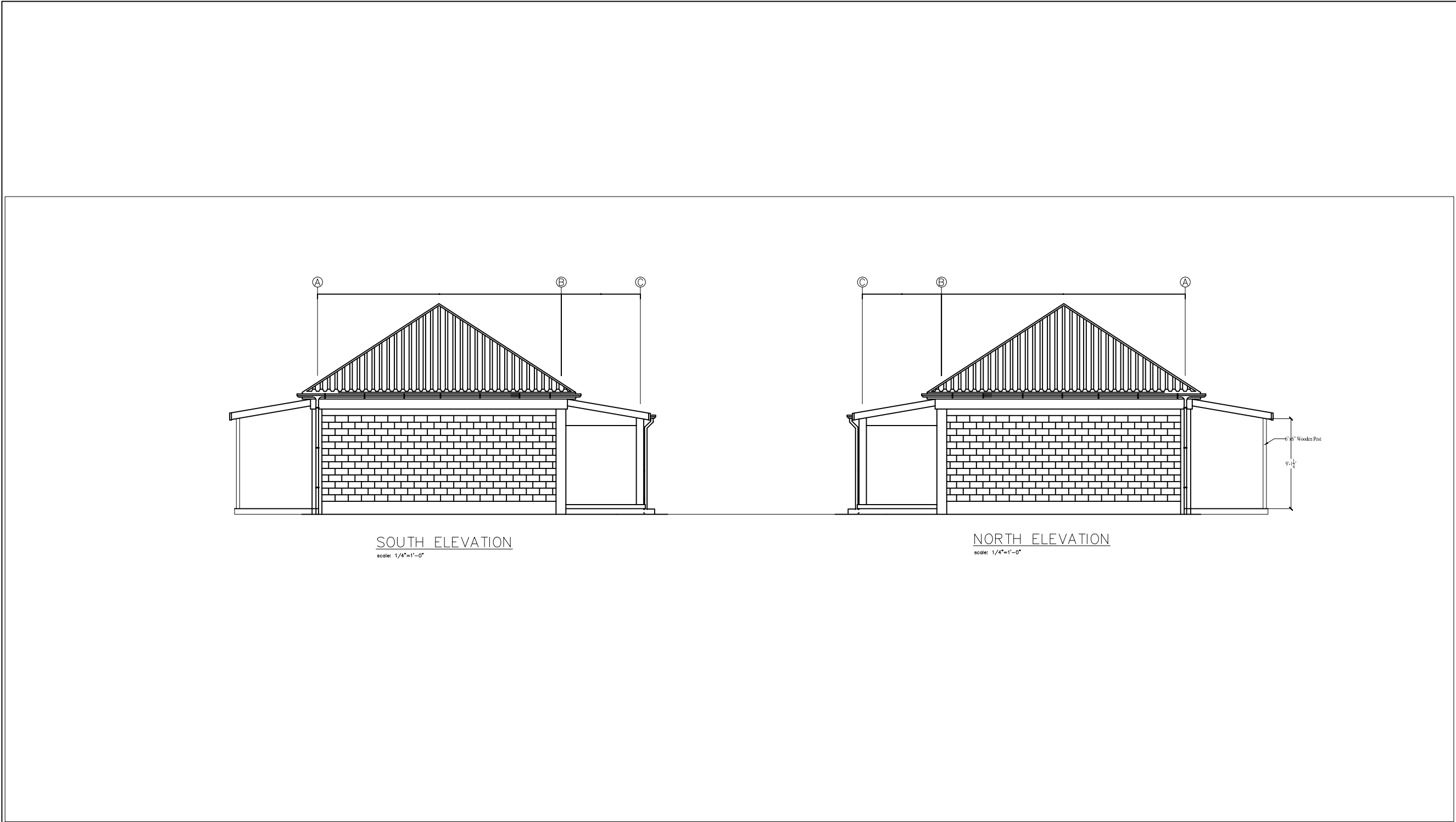
GENERAL NOTES

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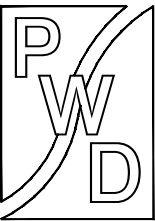
Public Works Department
P.O. Box 344
Montserrat
West Indies
Tel: 664- 491- 6611
Fax: 664- 491- 6659

| | |
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| TITLE: FLOORPLAN2 | |
| DESIGN: P.W.D | |
| DRAWN: SILCOTTR | |
| CHECKED: . | |
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| | SHEET NO.: |
| DATE: 13.02.08 | R-02 |
| SCALE: N.T.S | |



GENERAL NOTES

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P.O. Box 344
Montserrat
West Indies
Tel: 664- 491- 6611
Fax: 664- 491- 6659

PROJECT: LOOKOUTPRIMARYSCHOOL

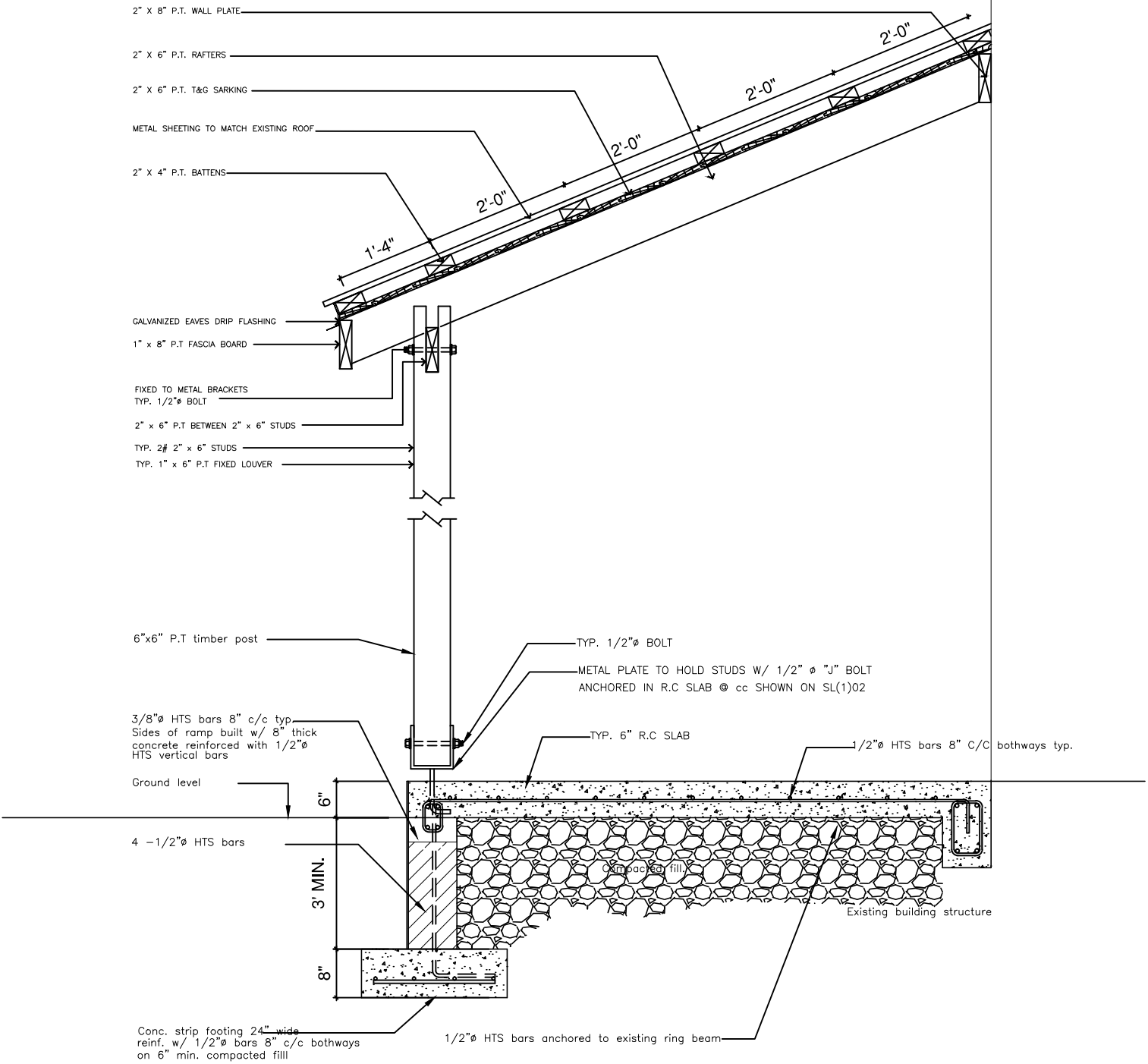
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DRAWN: SILCOTTR

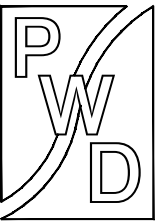
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| DATE: 13.02.08 | |
| SCALE: N.T.S | |



GENERAL NOTES

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Public Works Department
P.O. Box 344
Montserrat
West Indies
Tel: 664- 491- 6611
Fax: 664- 491- 6659

PROJECT: LOOKOUTPRIMARYSCHOOL

TITLE: SECTIONDETAILS

DESIGN: P.W.D

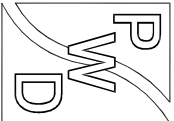
DRAWN: SILCOTTR

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| | SHEET NO.: R-04 |
| DATE: 13.02.08 | |
| SCALE: N.T.S | |

GENERAL NOTES

| No. | Revision / Issue | By | Chk | Date |
|-----|------------------|----|-----|------|
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Public Works Department
P.O. Box 344
Montreal
West Indies
Tel: 664- 491- 6611
Fax: 664- 491-6659

PROJECT: LOOKOUTPRIMARYSCHOOL

TITLE: ACCESS.RAMP PLAN

DESIGN: P.W.D

DRAWN: .

CHECKED: .

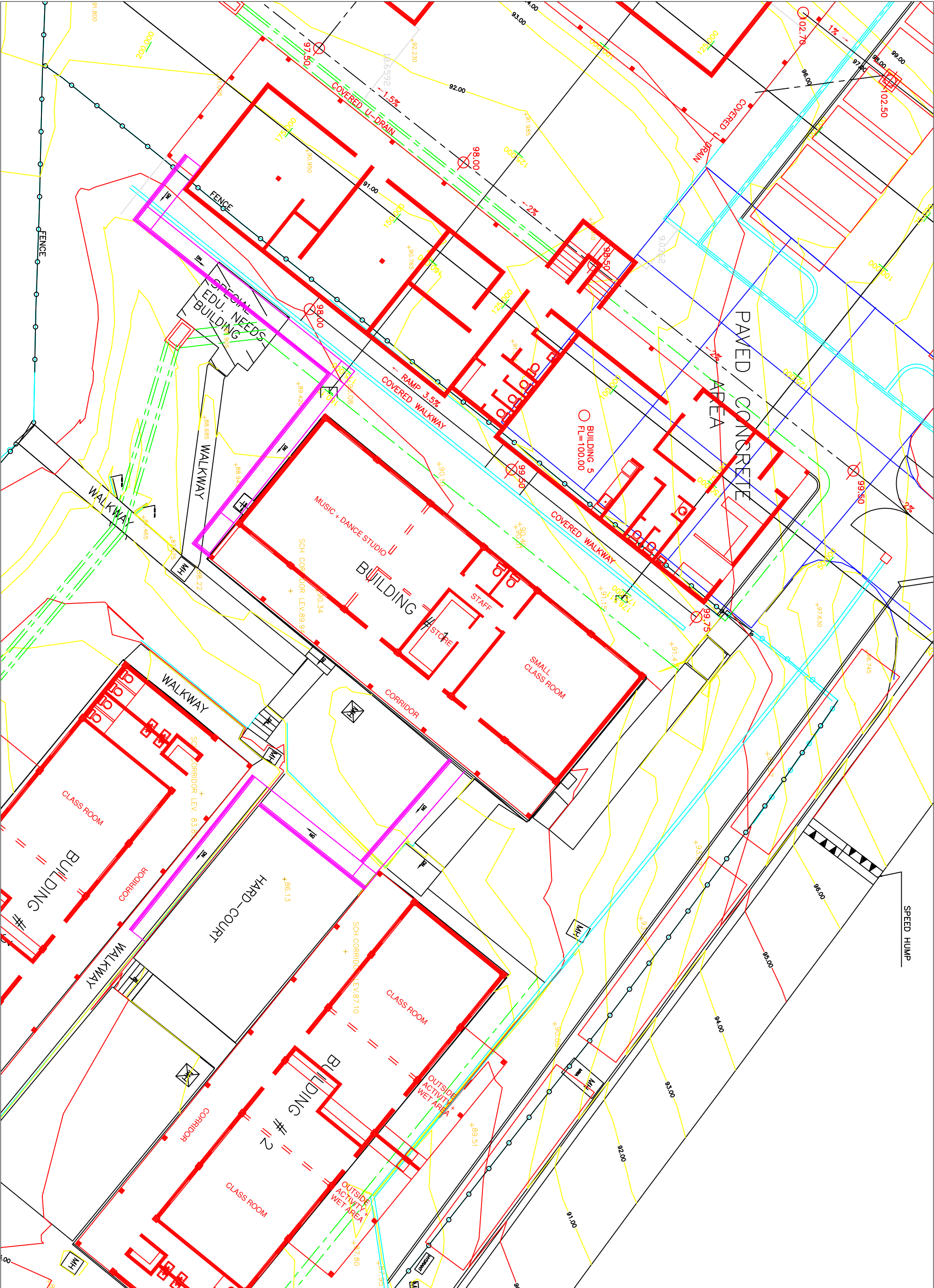
FILE PATH:
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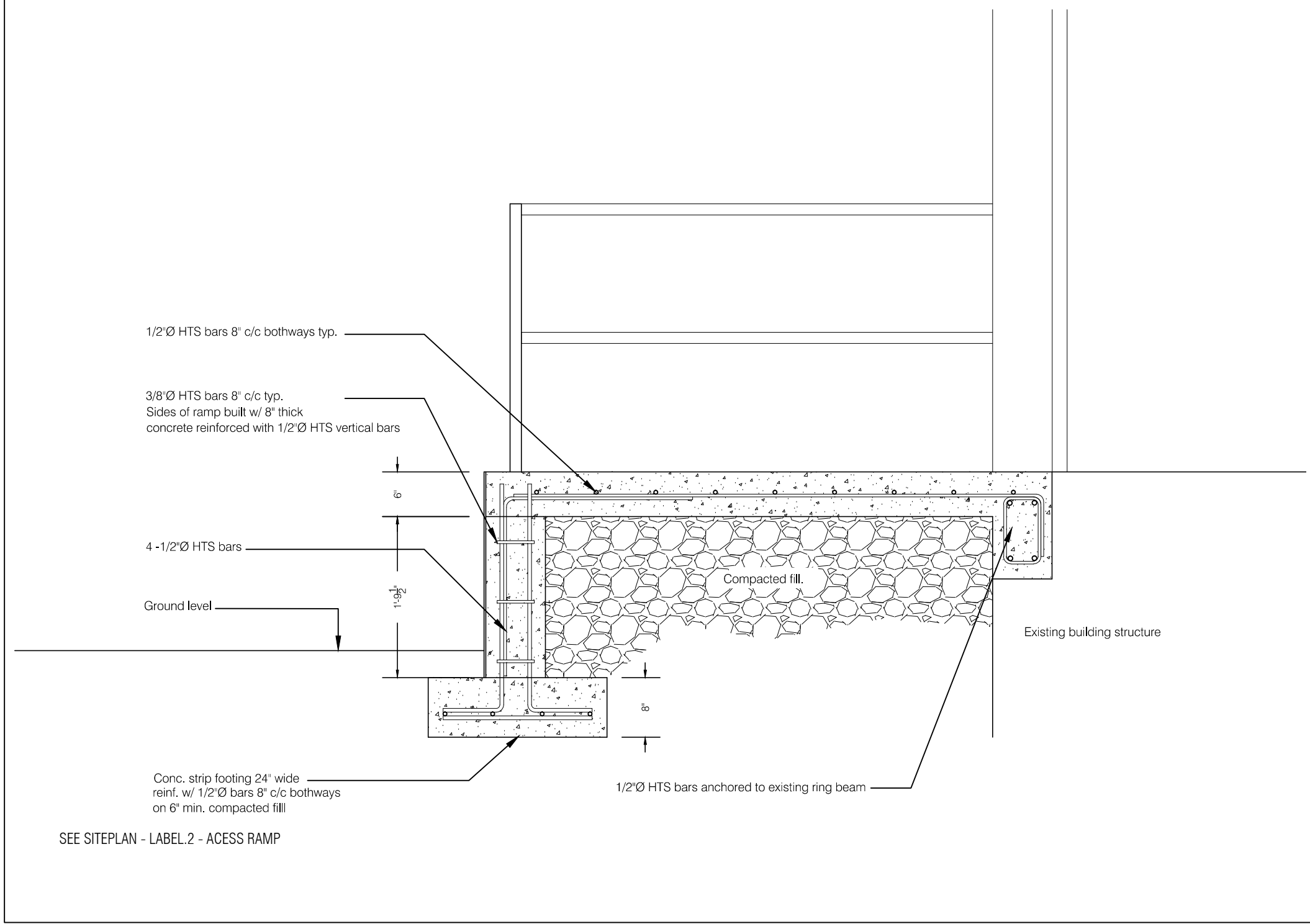
DATE: 13.04.23


SCALE: 1:16

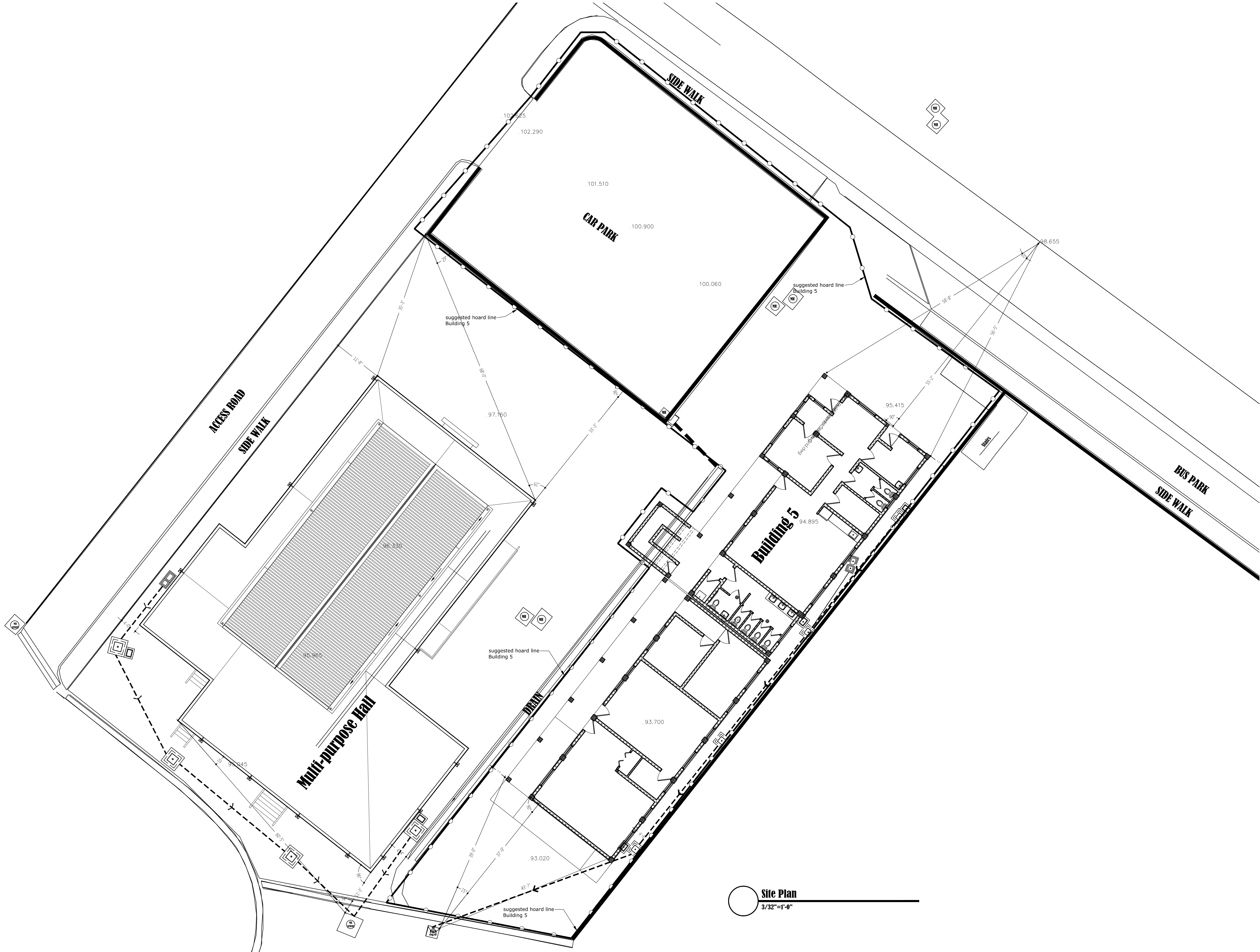
SHEET NO.:

EW-03





| GENERAL NOTES | | | | |
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| No. | Revision / Issue | By | Chk | Date |
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| PROJECT: LOOKOUTPRIMARYSCHOOL | | | | |
| TITLE: ACCESS.RAMP | | | | |
| DESIGN: P.W.D | | | | |
| DRAWN: SILCOTTR | | | | |
| CHECKED: . | | | | |
| SECTION.A-A | | | | |
| FILE PATH: ENTER-PATH | | SHEET NO.: | | |
| DATE: 13.02.08 | | EW-04 | | |
| SCALE: N.T.S | | | | |



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Revisions

| A | MM/DD/YY | Date | Description |
|---|----------|------|-------------|
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PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

Site Plan

PROJECT NO.
P.084
DATE
27/06/11
SCALE
3/32"=1'-0"
DRAWN BY
CDSI-AR
CHECKED BY
RC,HS

A-00

REV:-

LOOKOUT PRIMARY SCHOOL EXTENSION

MULTI PURPOSE HALL

DRAWING LIST

DRAWING LIST

| | |
|-------|---|
| A-00 | : SITE PLAN |
| A-01 | : FLOOR PLAN |
| A-02 | : HIGH LEVEL WINDOW PLAN |
| A-03 | : SECTIONS |
| A-04 | : ELEVATIONS |
| A-05 | : ELEVATIONS |
| A-06 | : ROOF DRAINAGE PLAN |
| A-07 | : FINISH SCHEDULE |
| A-08 | : DOOR AND WINDOW SCHEDULE |
| A-09 | : CHANGING ROOM & KITCHEN FURNITURE & FIXTURES LAYOUT |
| I.D.1 | : OMITTED |
| I.D.2 | : CHANGING ROOM & KITCHEN INTERIOR ELEVATIONS |

| | |
|------|---|
| S-01 | : FOUNDATION PLAN |
| S-02 | : GROUND LEVEL FRAMING PLAN |
| S-03 | : SLAB RE-BAR PLAN/FIRST FLOOR FRAMING PLAN |
| S-04 | : ROOF FRAMING PLAN |
| S-05 | : FOOTING DETAILS |
| S-06 | : COLUMN DETAILS |
| S-07 | : ROOF AND SHADING DETAILS |
| S-08 | : GROUND FLOOR BEAM DETAILS |
| S-09 | : FIRST FLOOR BEAM DETAILS |
| S-10 | : SLAB SECTIONS |
| E-01 | : ELECTRICAL AND FIRE PLAN |
| E-02 | : ELECTRICAL AND FIRE SCHEDULES |
| P-01 | : DRAINAGE PLAN & DETAILS |
| P-02 | : WATER SUPPLY AND GAS PLAN |

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| | | |
| A | MM/DD/YY | ----- |

|  Date | Description |
|---|-------------|
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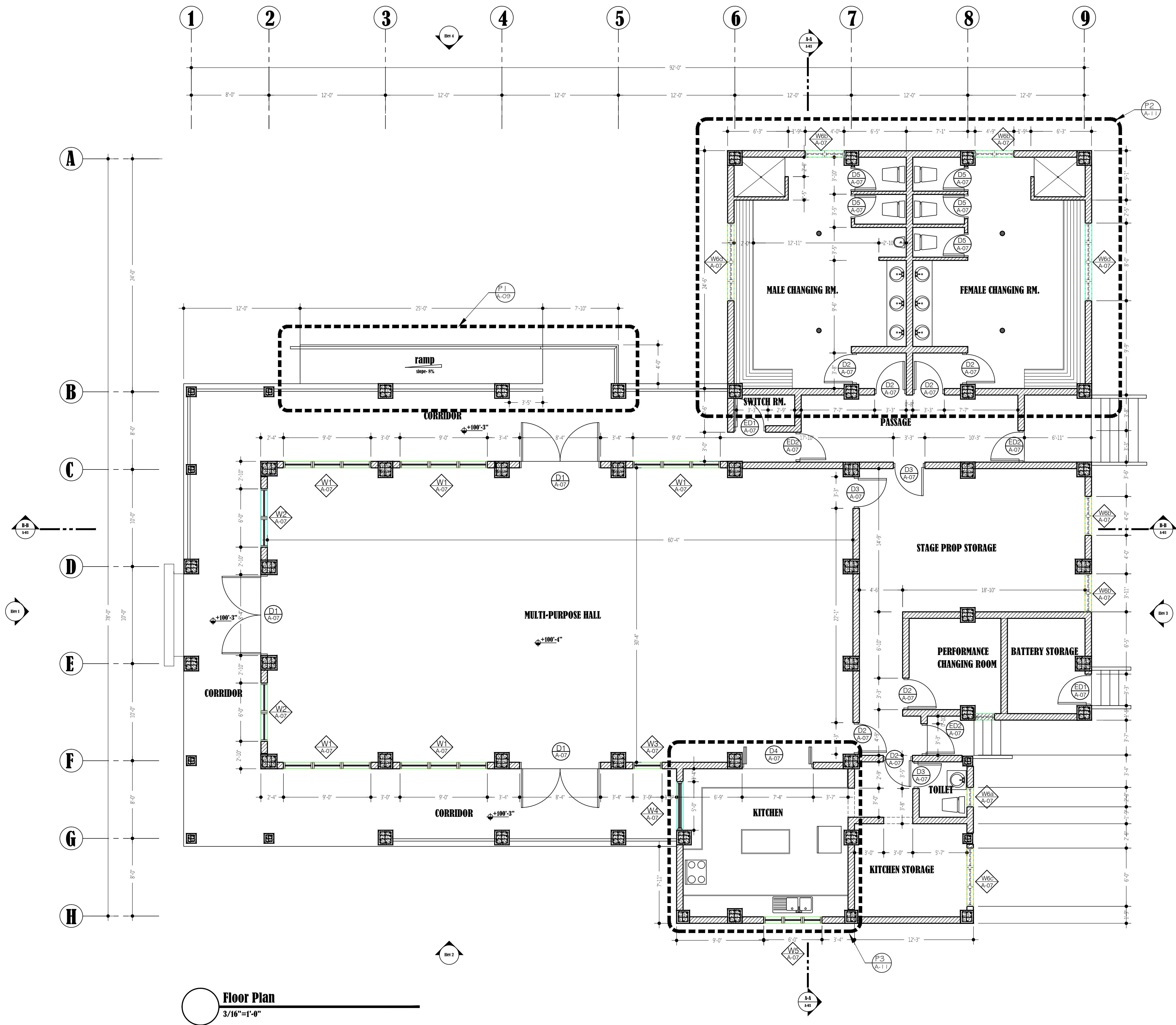
PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

Content

| | |
|----------------------|-------|
| PROJECT NO. P.084 | |
| DATE 27/06/11 | |
| SCALE 3/16"=1'-0" | |
| DRAWN BY CDSI-AR | |
| CHECKED BY RC,HS. | REV:- |



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PROJECT

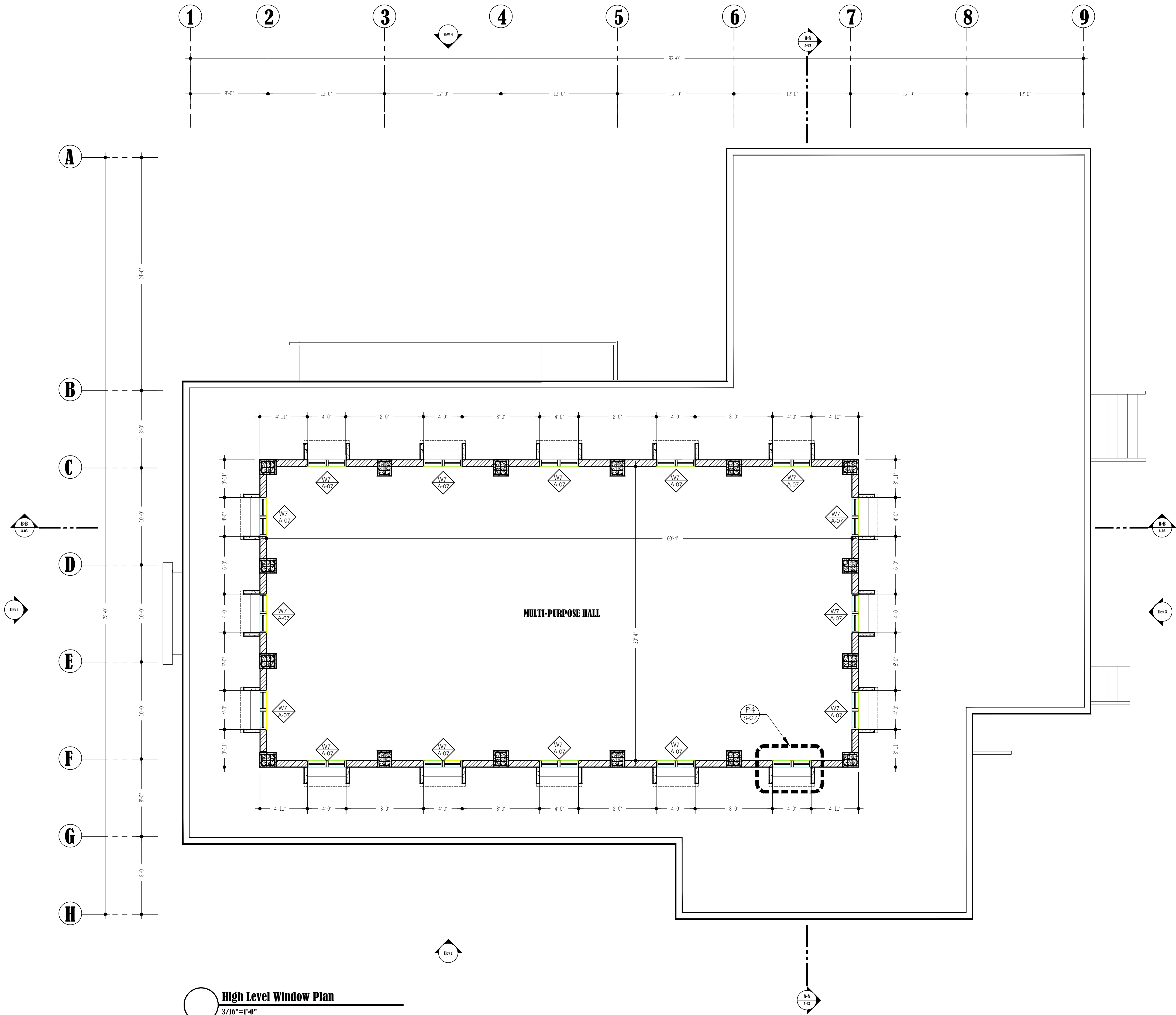
Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

Floor Plan

PROJECT NO.
P.084
DATE
27/06/11
SCALE
3/16"=1'-0"
DRAWN BY
CDSI-AR
CHECKED BY
RC,HS.

A-01
REV:-



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PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

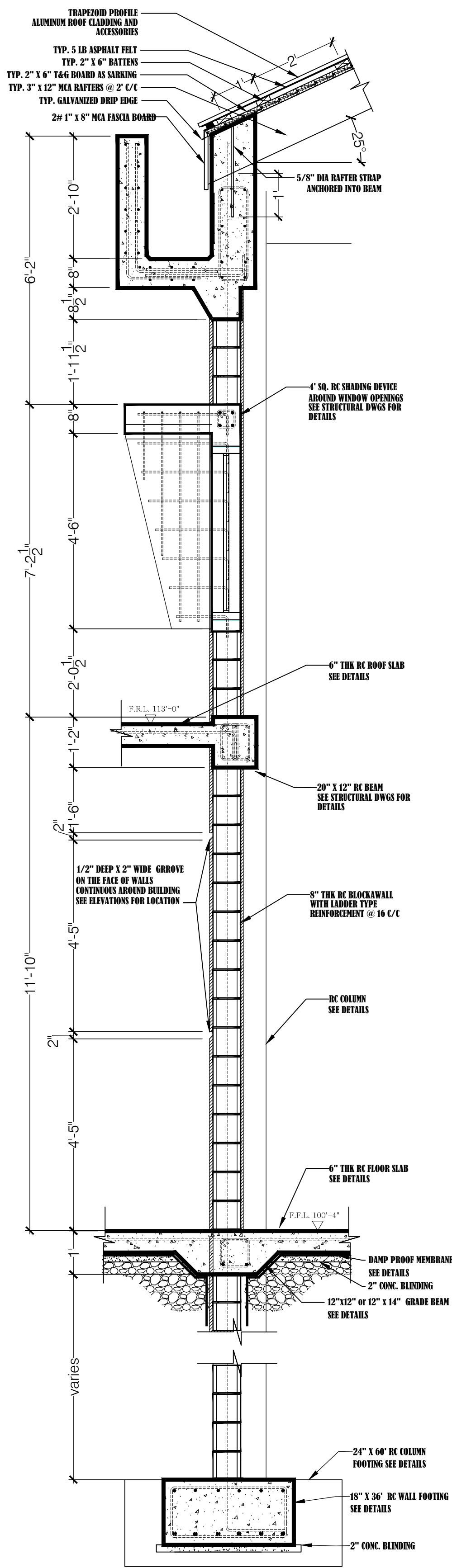
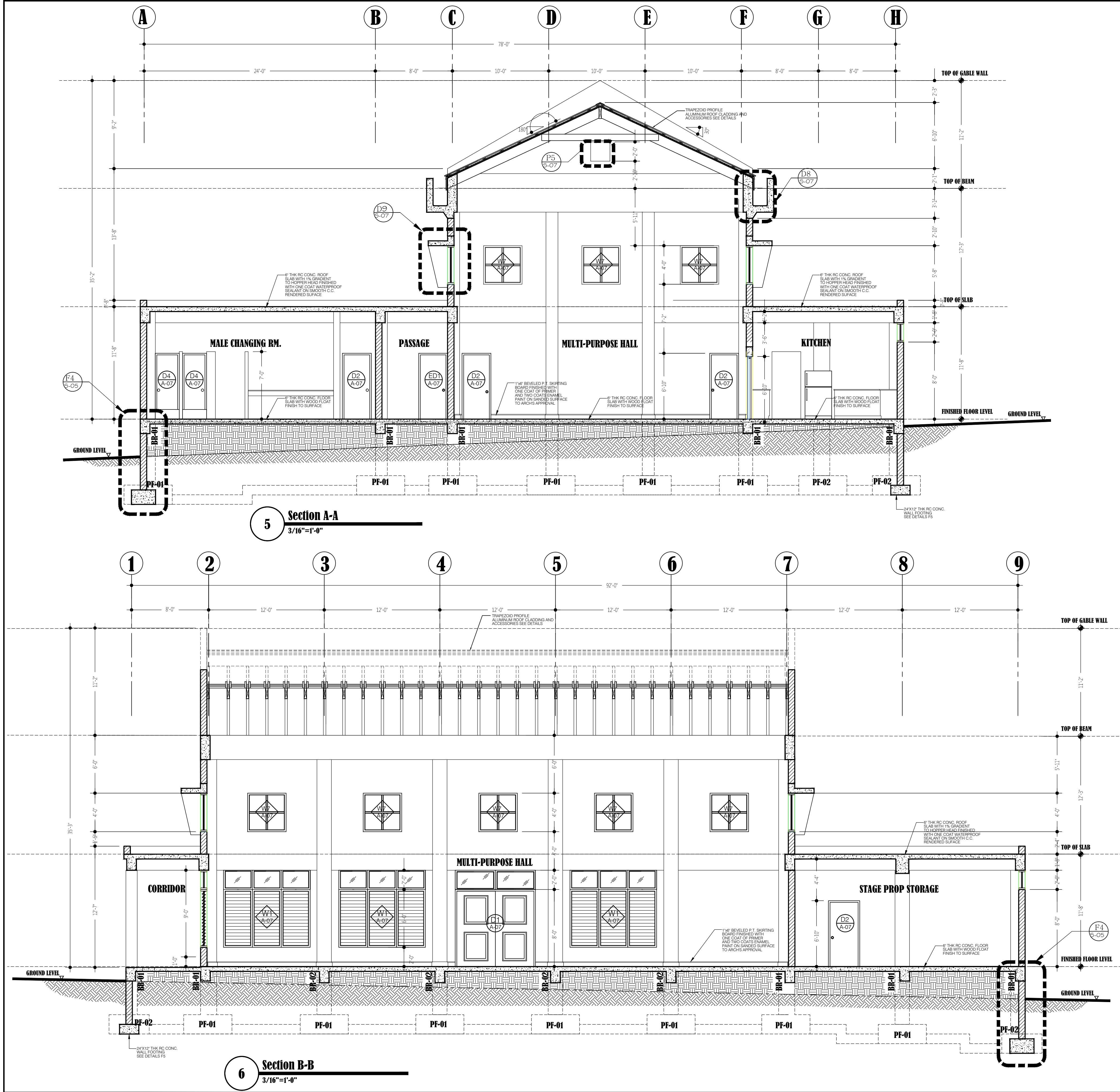
DRAWING

High Level Window
Plan

PROJECT NO.
P.084
DATE
27/06/11
SCALE
3/16"=1'-0"
DRAWN BY
CDSI-AR
CHECKED BY
RC,HS.

A-02

REV:-



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PROJECT

Lookout Primary School
Extension

DRAWING

Sections

| | |
|----------------------|------|
| PROJECT NO. P.084 | A-03 |
| DATE 27/06/11 | |
| SCALE 3/16"=1'-0" | |
| DRAWN BY CDI-AR | |
| CHECKED BY RC,HS | |



2 North Elevation
3/16"=1'-0"



4 South Elevation
3/16"=1'-0"

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PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

Elevations 2&4

| | |
|----------------------|---------------|
| PROJECT NO. P.084 | A-04 REV:- |
| DATE 27/06/11 | |
| SCALE 3/16"=1'-0" | |
| DRAWN BY CDSI-AR | |
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1 West Elevation
3/16"=1'-0"



3 East Elevation
3/16"=1'-0"

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|---|----------|-------|
| A | MM/DD/YY | ----- |
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| Date | Description |
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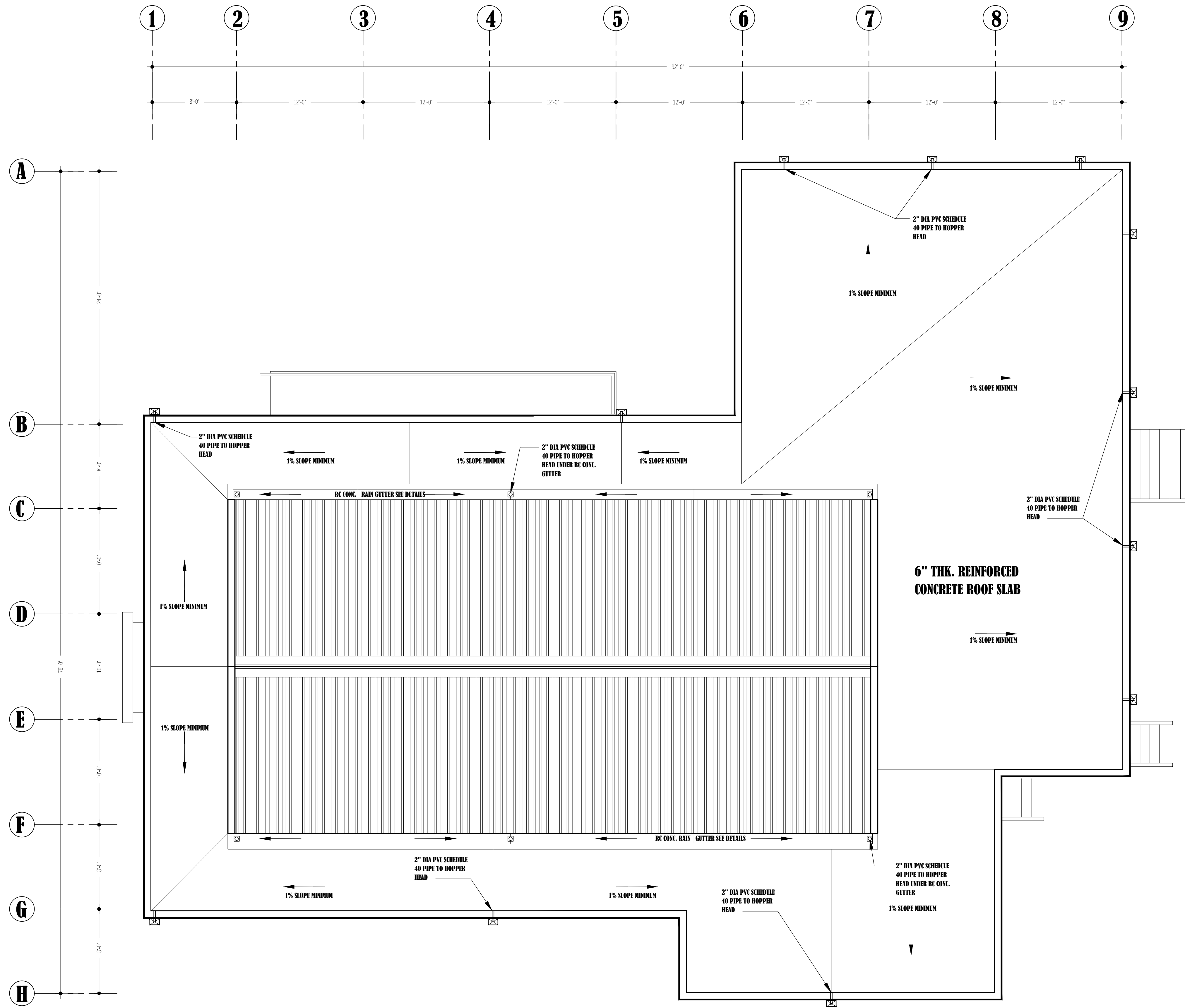
PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

Elevations 1&3

| | |
|----------------------|-------|
| PROJECT NO. P.084 | A-05 |
| DATE 27/06/11 | |
| SCALE 3/16"=1'-0" | |
| DRAWN BY CDSI-AR | |
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Roof Drainage Plan
3/16"=1'-0"

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| △ | Date | Description |

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PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

Roof Plan

| | |
|----------------------|---------------|
| PROJECT NO. P.084 | A-06 REV:- |
| DATE 27/06/11 | |
| SCALE 3/16"=1'-0" | |
| DRAWN BY CDSI-AR | |
| CHECKED BY RC,HS. | |

Lookout Primary School Extension-Multipurpose Auditorium

EXTERNAL FINISH SCHEDULE

| ITEMS | DESCRIPTION | ITEMS | DESCRIPTION |
|--|---|-------------------|---|
| ROOF : | 6" THICK REINFORCED CONC. SLAB WITH 1% WATER RUN. APPLY ONE COAT OF WATERPROOF PAINT (Vulkem 801 OR SIMILAR) ON SMOOTH RENDERED TOP AND SIDES OF ROOF SLAB. | CEILING : | 2 COATS OF EMULSION FLAT PAINT ON 1 COAT OF PRIMER ON SMOOTH MORTAR RENDERED WITH BONDING AGENT ON SURFACE OF ROOF SLAB. |
| RAIN GUTTER : | 2 COATS OF EMULSION FLAT PAINT ON 1 COAT OF PRIMER ON MORTAR RENDERED 2'-0" WIDE x 1'-6" DEEP REINFORCED CONCRETE ROOF GUTTER. | FLOOR AND STEPS : | WOOD FLOAT FINISH TO 6" THICK REINFORCED CONC. FLOOR SLAB AND TO FRONT STEPS |
| EXTERNAL WALL : | 2 COATS OF EMULSION FLAT PAINT ON 1 COAT OF PRIMER ON MORTAR RENDERED 8" CONC. BLOCK WALLS. ALTERNATIVE CAVITIES TO BE FILLED WITH LEAN MIX (1:3) CONCRETE AND 1/2"Ø HIGH YIELD RIBBED BARS FOR VERTICAL REINFORCEMENT (@16"C.C). GALVANIZED LADDER REINFORCEMENT FOR HORIZONTAL REINFORCEMENT (EVERY OTHER COURSES) | WINDOWS & DOOR : | SEE WINDOW & DOOR SCHEDULE @A-07 2 COATS OF ENAMEL (OIL BASE) PAINT ON 1 COAT OF PRIMER ON SANDED TIMBER SURFACE. |
| HANDRAIL WALL : (AT STAIRS &CORRIDOR) | 2 COATS OF ENAMEL PAINT ON 1 COAT OF PRIMER ON GALVANIZED 2" HOLLOW STEEL PIPE SECTION AND ANCHORS. | Roof Cladding : | HENDERSON'S LTD. ZINCALUME 24 GAUGE" COLORBOND ULTRA" METAL ROOFING SYSTEM,TRAPEZOIDAL PROFILE SHEETS, WHITE FINISH, MATCHING TRIMS, CAPPING AND SCREWS. 24" RIDGE CAPPING, 18" HIP CAPPING, EAVES DRIP FLASHING. |

INTERNAL FINISH SCHEDULE-ARCHITECTURAL

| ITEMS | DESCRIPTION | ITEMS | DESCRIPTION |
|-----------------------------|---|------------------|---|
| FLOOR GENERAL : | WOOD FLOAT FINISH WITH COLOUR PIGMENTATION TO PROJECT ARCHTECT OR CLERK OF WORKS' APPROVAL ON 6" THICK REINFORCED CONC. FLOOR SLAB. | WALL TILES : | 6" SQUARE CERAMIC WALL TILES (WITH UNSANDED GROUT WITH ¼" SPACING) ON SMOOTH MORTAR RENDERED FINISH TO SHOWER WALL AND FLOOR(NON SKID ON SHOWER FLOORS ONLY) SEE SHEET @I.D.-01. WALL AROUND KITCHEN CABINET: 1 COURSE ON FLOOR CABINET (BEHIND STOVE TO BE UP TO UNDER WALL CABINET, SEE SHEET @I.D-02) WALL AROUND WASHBASIN: 1 COURSE ON CONCRETE COUNTERTOP APPLY MASTIC SEALANT AT JOINT OF TILES AND COUNTERTOP |
| FLOOR SHOWER & LEDGE : | WOOD FLOAT FINISH SCREED 1% MINIMUM SLOPE TO SHOWER DRAIN, ON 6" THICK REINFORCED CONC. FLOOR SLAB. | | |
| WALL GENERAL : (& BEAMS) | 2 COATS OF EMULSION SEMI-GLOSS PAINT ON 1 COAT OF PRIMER ON SMOOTH MORTAR RENDERED SURFACE. | CEILING : | CONC. ROOF: 2 COATS OF EMULSION FLAT PAINT ON 1 COAT OF PRIMER ON MORTAR RENDERED. |
| SKIRTING : | 1"x6"P.T. BEVELED SKIRTING BOARD. 2 COATS OF ENAMEL (OIL BASE) PAINT ON 1 COAT OF PRIMER ON SANDED TIMBER SURFACE. | FRAMES & DOORS : | SEE DOOR SCHEDULE @A-08. 2 COATS OF ENAMEL (OIL BASE) PAINT ON 1 COAT OF PRIMER ON SANDED TIMBER SURFACE. |

INTERNAL FINISH SCHEDULE-I.D.

| ITEMS | DESCRIPTION | ITEMS | DESCRIPTION |
|---------------------|--|--|---|
| CABINETRY GENERAL : | • ALL TIMBER (CABINET FRAME, DOOR PANELS ETC., INC. LAMINATED TIMBER) TO BE PRESSURE TREATED OR APPLIED WOOD PRESERVATIVE ON SITE. • INSIDE CABINET MUST BE FINISHED WITH PAINT (TWO COATS ENAMEL (OIL BASE) PAINT ON ONE COAT OF PRIMER) OR VARNISH (TWO COATS POLYURETHANE VARNISH ON PREPARED (SANDED WITH APPLICATION OF SANDING SEALER) TIMBER SURFACE). • CABINET HINGES : S/S CONCEALED HINGES. | CHANGING ROOM BENCH : | 18" DEEP x 18" HIGH L SHAPED WOODEN BENCH WITH OPEN 1"x3" SEATING BOARDS ON 4" CONCRETE BLOCKWALL @ 6' 0"/C. APPLY 2 COATS OF ENAMEL (OIL BASE) PAINT ON 1 COAT OF PRIMER TO ALL WOODEN SURFACES AND 2 COATS SEMI GLOSS ON ONE COAT PRIMER TO SUPPORT WALLS. |
| KITCHEN CABINETS : | • FLOOR CABINET: 2'-0"DEEP X 2'-11"HIGH, L-SHAPE WITH DOUBLE S/S SINK, SINGLE (WATER) FAUCET, THREE ROWS OF DRAWER AT LEAST, ONE ROW OF 16"DEEP SHELIVING. • WALL CABINET 1: 1'-3/4"DEEP X 2'-0"HIGH, I-SHAPES WITH ONE ROW OF 1'-0"DEEP SHELIVING. • BACK SPLASH: SEE WALL TILES. | WASHBASIN COUNTER : (See detail @I.D.-01) | • CONCRETE COUNTER: ¾" PLYBOARD COUNTER TOP WITH WHITE FORMICA AS LAMINATE. 2'-0"deep x 3'-0"high CABINETS WITH OVER-COUNTER PORCELAIN BASIN, SINGLE (WATER) FAUCET x6. • WALL CABINET: NONE • BACK SPLASH: SEE WALL TILES DETAILS ON SHEET I.D.-01. |
| MIRROR & FRAME : | • 2'-6"x7'-6" MIRROR CENTERED OVER LAVATORY WITH 2½" BEVELED WOOD FRAME AND FINISHED WITH TWO COATS ENAMEL (OIL BASE) PAINT ON ONE COAT OF PRIMER ON TIMBER SURFACE. | | |

Bath & Kitchen Fitting Schedule
(AMERICAN STANDARDS FIXTURES AND FITTINGS)

| FIXTURE | DESCRIPTION | COLOUR/FINISH | MODEL # | LOCATION | QUANTITY |
|--------------------|---|-----------------|--------------|--------------------|----------|
| WATER CLOSET | VITREOUS CHINA. LOW WATER CONSUMPTION TWO PIECES TOILET SET WITH ELONGATED BOWL, WITH SEAT AND COVER, 12" ROUGH-IN AND TANK | WHITE | 2586.000 | CHANGING ROOMS | 5 |
| LAVATORY BASIN | VITREOUS CHINA OVER-COUNTER BASIN WITH FAUCET HOLES ON 4" CENTRES | WHITE | 0403.004 | | 6 |
| LAVATORY FAUCET | 2-METAL LEVER HANDLES CENTERSET (4" CENTRES) WITH POP-UP DRAIN | SATIN | 7038.201 | | 6 |
| URINAL | WALL MOUNTED VITREOUS CHINA URINAL WITH SIPHON JET FLUSHING ACTION AND 3/4 REAR SPUD INLET | WHITE | 6550.05 | MALE CHANGING ROOM | 1 |
| URINAL FLUSH VALVE | MANUAL PISTON-TYPE URINAL FLUSH VALVE FOR 3/4" TOP SPUD URINALS | CHROME | 6045.051.002 | | 1 |
| SHOWER FAUCET | TWO HANDLE SHOWER ONLY WITH METAL LEVER HANDLES | SATIN | 7221.732 | CHANGING ROOMS | 2 |
| KITCHEN SINK | TOP MOUNT DOUBLE KITCHEN SINK HOLES ON 4" CENTRES | STAINLESS STEEL | 7502.403 | KITCHEN | 1 |
| KITCHEN FAUCET | 2-HANDLE TOP MOUNT BRIDGE KITCHEN FAUCET | SATIN | 4233.721 | | 1 |

BATHROOM ACCESSORIES
(AJ WASHROOM ACCESSORIES OR EQUIVALENT)


| BATHROOM ACCESSORY | DESCRIPTION/MODEL# | COLOUR/FINISH | LOCATION | QUANTITY |
|------------------------|--|-----------------|----------------|----------|
| TOILET PAPER DISPENSER | UX141-SF | SATIN | CHANGING ROOMS | 5 |
| SOAP DISH (SHOWER) | UX122-SF | SATIN | | 2 |
| ROLL TOWEL DISPENSER | U169HF | STAINLESS STEEL | | 2 |
| MIRROR | MADE BY CONTRACTOR SEE INTERIOR FINISH SCHEDULE @A-07 | | | 2 |

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| A | MM/DD/YY | ----- |
|--|----------|-------------|
|  | Date | Description |

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PROJECT

Lookout Primary School Extension
-Multi-purpose Hall

DRAWING

Finish Schedules

| | |
|---|---------------|
| PROJECT NO. P.084 DATE 27/06/11 SCALE 3/16"=1'-0" DRAWN BY CDSI-AR CHECKED BY RC,HS. | A-07 REV:- |
|---|---------------|

LAUSSELL ALUMINIUM JALOUSIES, INC. OR EQUIVALENT

no hurricane shutters required

no hurricane shutters required



LOCK/HANDLE:
KEY LEVER HANDLE AND DEADBOLT



LOCKHANDLE:
KEY LEVER HANDLE AND DEADBOLT



LOCK/HANDLE:



LOCKHANDLE:



I NO. DB




PRIVACY LEVER HANDLE

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PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

Door and Window Schedules

| | |
|----------------------|-------|
| PROJECT NO. P.084 | |
| DATE 27/06/11 | |
| SCALE 3/8"=1'-0" | |
| DRAWN BY CDSI-AR | A-08 |
| CHECKED BY RC,HS. | REV:- |

Public
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Department
Ministry of
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& Works

Revisions

General Notes

PROJECT

DRAWING

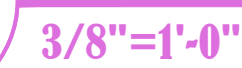
PROJECT NO.
P.084

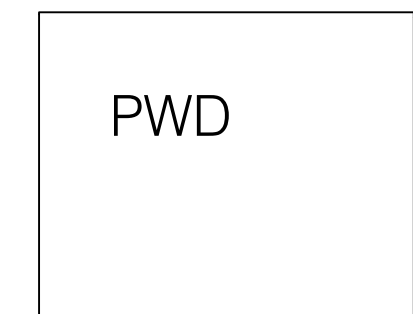
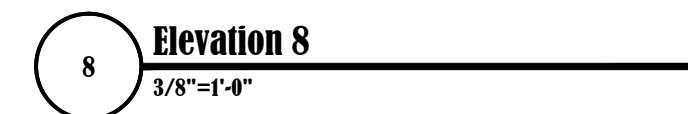
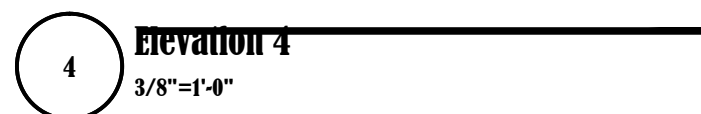
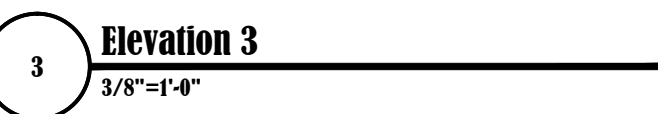
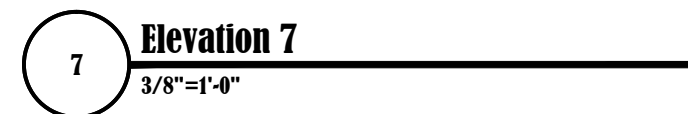
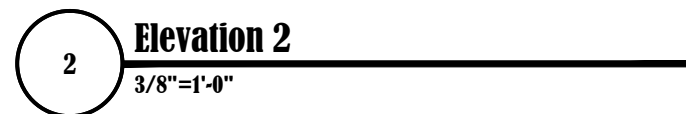
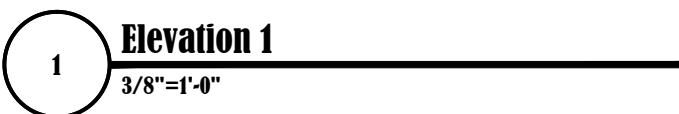
A-09

REV:-


$$\overline{3/8'' = 1'-0''}$$


P1

 $4'' = 1' - 0''$ 




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|  | Date | Description |

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PROJECT

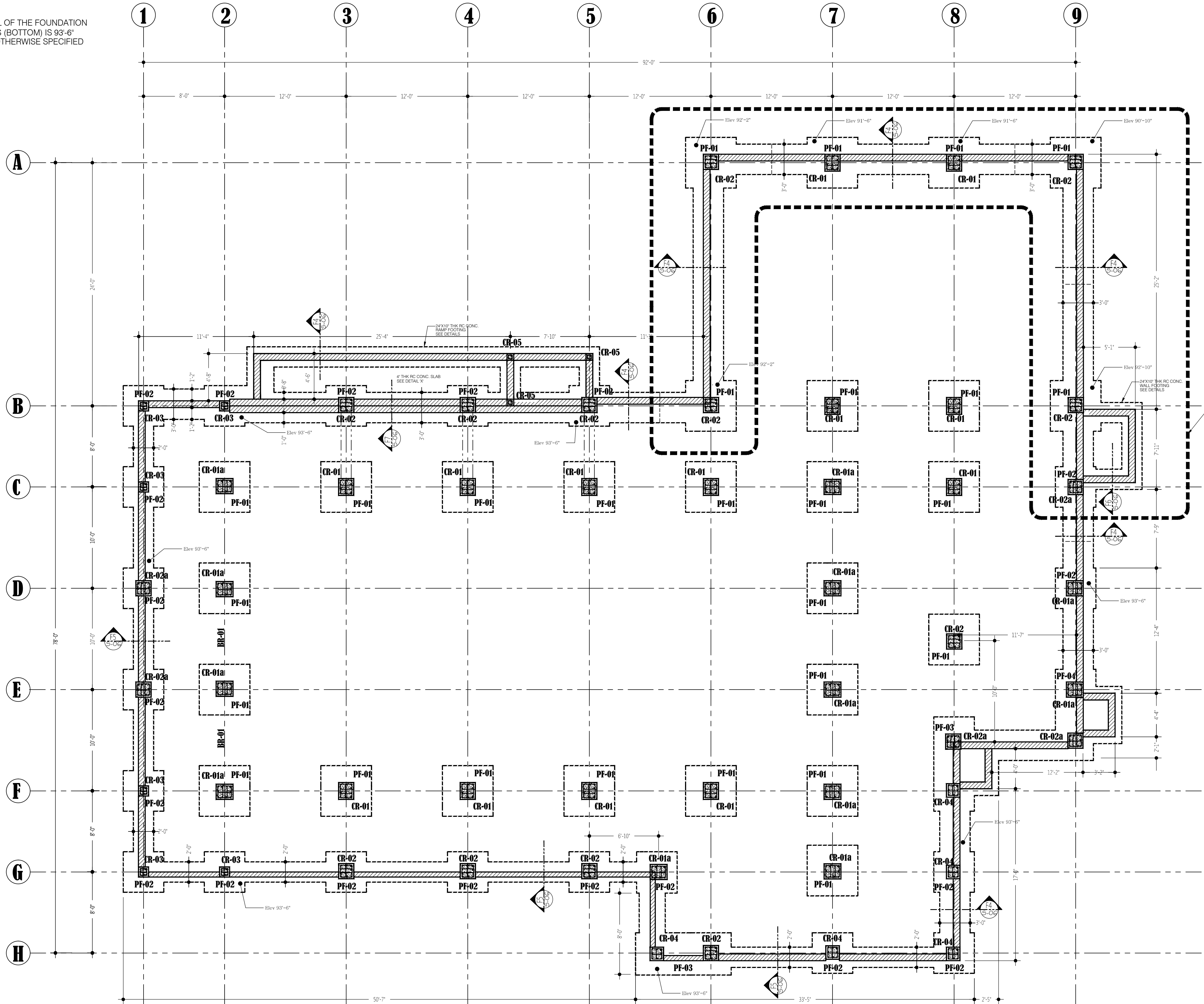
Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

Interior elevations

| | |
|----------------------|---------|
| PROJECT NO. P.084 | |
| DATE 27/06/11 | |
| SCALE AS SHOWN | |
| DRAWN BY CDSI-AR | I.D.-02 |
| CHECKED BY RC,HS. | REV:- |

NOTE:
THE LEVEL OF THE FOUNDATION
FOOTINGS (BOTTOM) IS 93'-6"
UNLESS OTHERWISE SPECIFIED



NOTE:
TWO LAYERS
OF 4" THK COMPACTED BASECOUR
TO BE PROVIDED UNDER THE FOOT
SEE STRUCTURAL DETAILS (S-06)

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PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

Foundation Plan

PROJECT NO.
P.084
DATE
27/06/11
SCALE
3/16"=1'-0"
DRAWN BY
CDSI-AR
CHECKED BY
RC,HS

S-01

REV:-

Foundation Plan

3/16"=1'-0"

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PROJECT NO.

DATE
27/06/1

SCALE
0 (CL) 4 (O)

DRAWN BY

REV:-




3/8" @ 5" BOTHWAYS FOR BOTH
BOTTOM AND TOP REINFORCEMENTS
BOTTOM REINFORCEMENT COVERS
THE ENTIRE SLAB.
TOP REINFORCEMENT AREA IS INDICATED
BY THE SHADED AREA AND IS 1/4 SPAN OF
THE BAR DISTRIBUTION AREA SEE
SLAB SECTIONS (S-10)



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PROJECT

DRAWING

PROJECT NO.
P.084

DATE
27/06/11

SCALE
3/16" = 1'-0"

DRAWN BY
CDSI-AR

CHECKED BY
RC,HS.

S-03


REV:-

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PROJECT

DRAWING

PROJECT NO.
P.084

DATE
27/06/11

SCALE
3/16" = 1'-0"

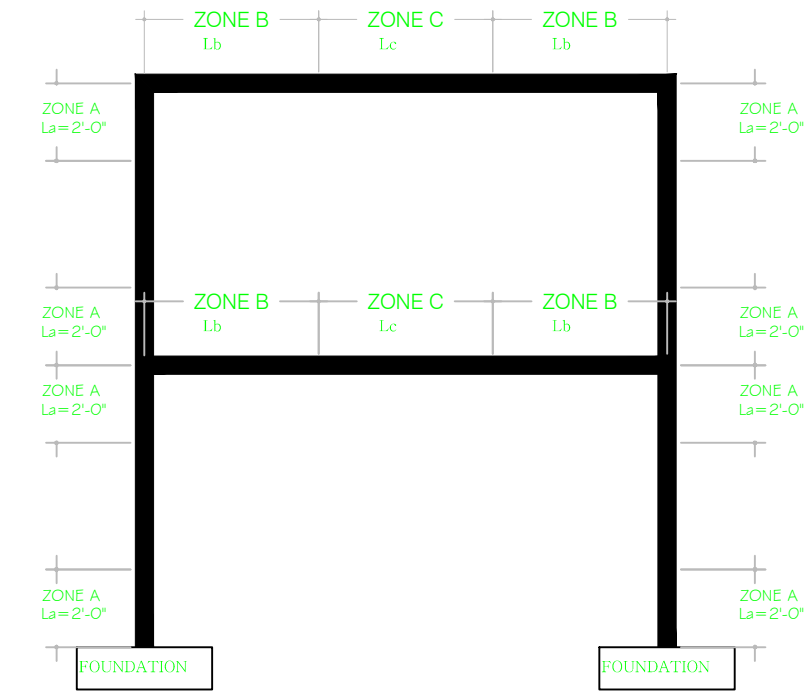
DRAWN BY
R.C.

CHECKED BY
RC,HS.

S-04

REV:-

Structural General Note



1. Hoop and stirrup spacing in the columns and beams can vary. It has been categorized in four zones, zone A, B, C and the rest. Zone A in the columns is 2' on either side of the column-beam or column-foundation connection. The hoop or stirrup spacing in zone A is 4". The hoop or stirrup spacing is 6" everywhere else on the columns. The length (L) and stirrup or hoop spacing (Sv) in zone B and C vary depending on the different beam types. They are summarized in table 1-1. Lap splices cannot occur at zone A or B and the top and bottom lap splices should alternate and not overlap at any location. The spacing requirement in zone B also applies to where lap splices occur in zone C. Lap splices cannot occur at zone A nor B, They should alternate and not overlap at any location.

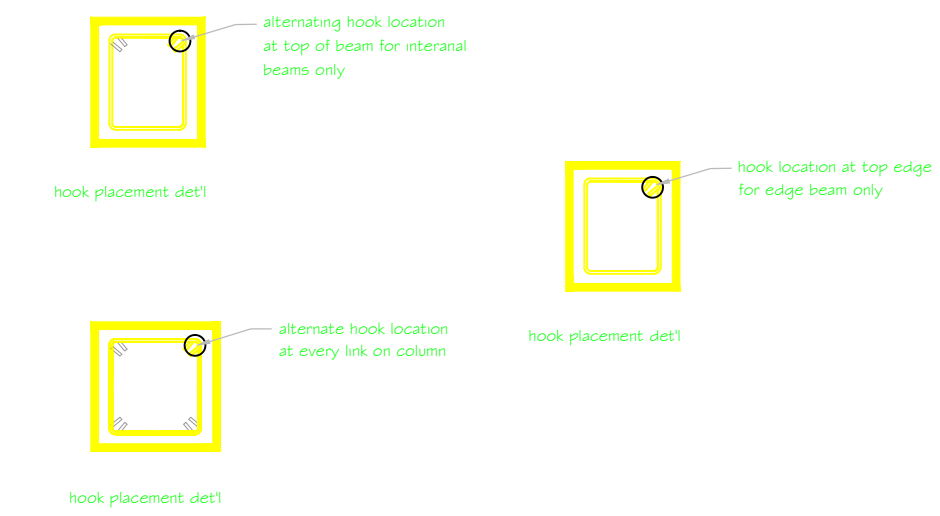
TABLE 1-1

| BEAM TYPE | Lb | Sv (ZONE B) | Lc | Sv (ZONE C) |
|-----------|-------|-------------|----------|-------------|
| BR-01 | 2'-4" | 3" | VARIABLE | 6" |
| BR-02 | 3'-0" | 3" | VARIABLE | 6" |
| BR-02b | 3'-6" | 3" | VARIABLE | 6" |
| BR-03 | N/A | N/A | N/A | N/A |
| BR-04 | 2'-8" | 3" | VARIABLE | 6" |
| BR-05 | 2'-8" | 3" | VARIABLE | 6" |
| BR-06 | 3'-6" | 4" | VARIABLE | 6" |
| BR-07 | 5'-2" | 4" | VARIABLE | 6" |

Table1-2 Lap length table

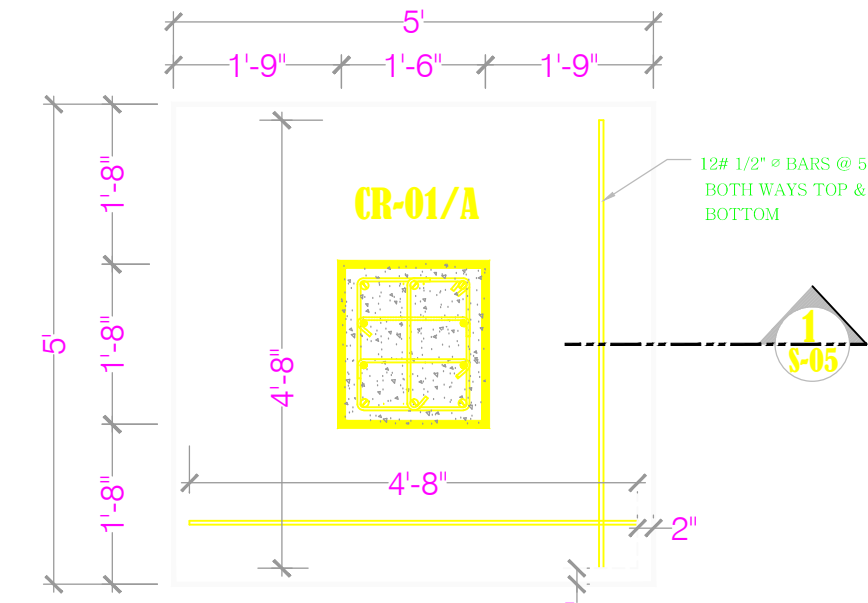
| re-bar dia | recommended lap length |
|------------|------------------------|
| 1/2" | 18" |
| 5/8" | 22" |
| 3/4" | 24" |
| 1" | 32" |

4. Cross ties with 135° or 90° alternate along the length of the member to improve confinement. Hook placement is as follows

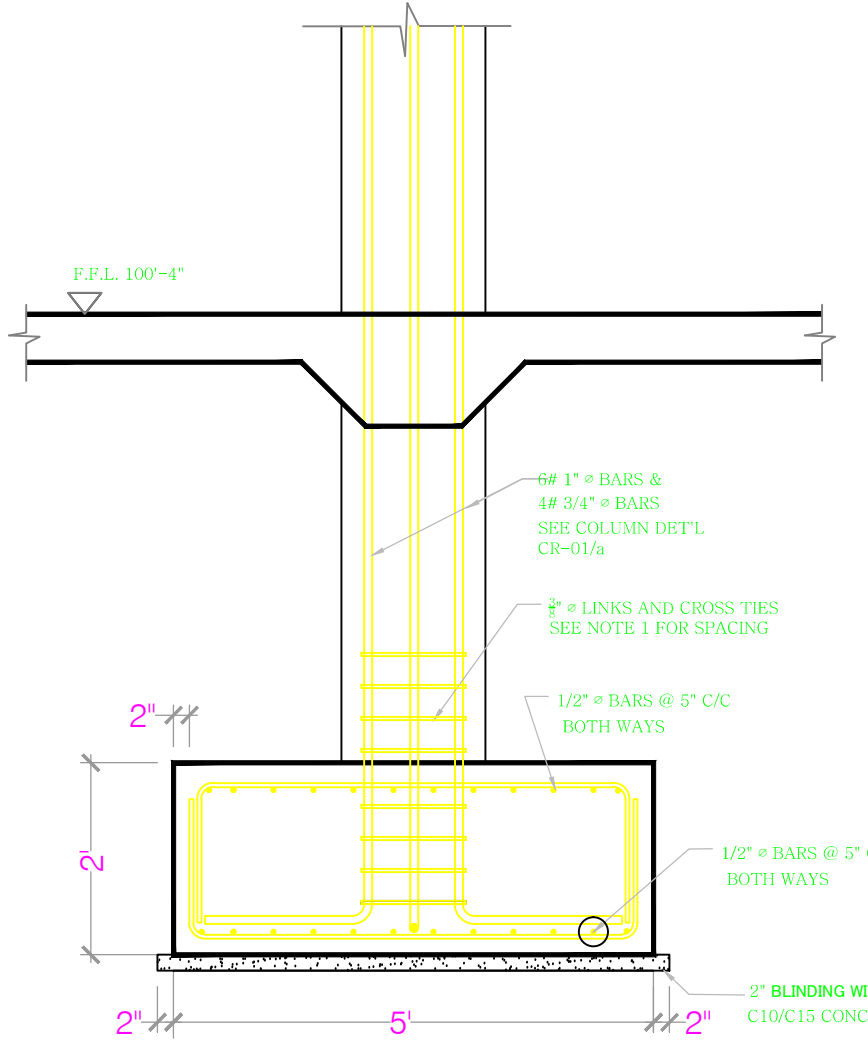


5. Foundations, ground beams and ground slabs must be constructed on compacted soil. The foundation is designed based on the assumption that the compacted soil has to reach minimum safe bearing capacity of 200kpa with maximum allowable settlement of 25mm.
6. Concrete used on the foundation is to be grade C25 , all other structural elements should be grade C40 and perimeter wall infill should be C30. Ground beam may be offset to accommodate edge walls

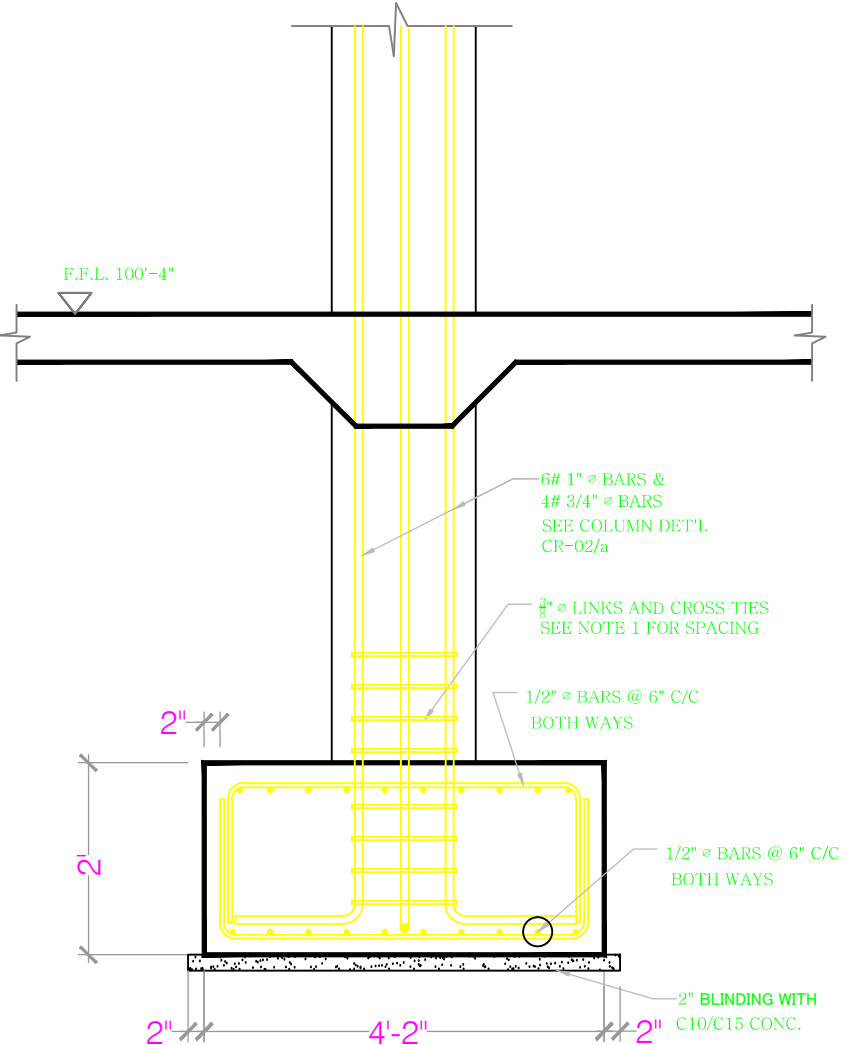
FOOTING DETAILS
SCALE: 3/8"=1'-0"



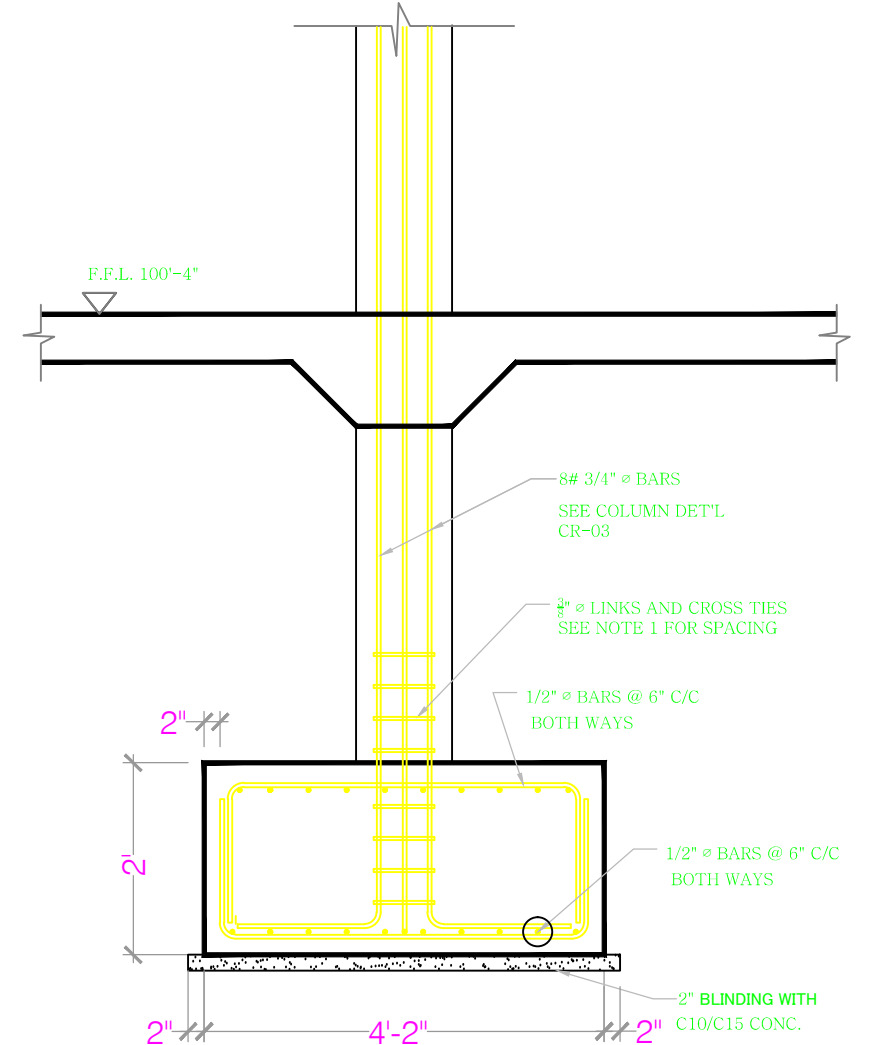
PF-01



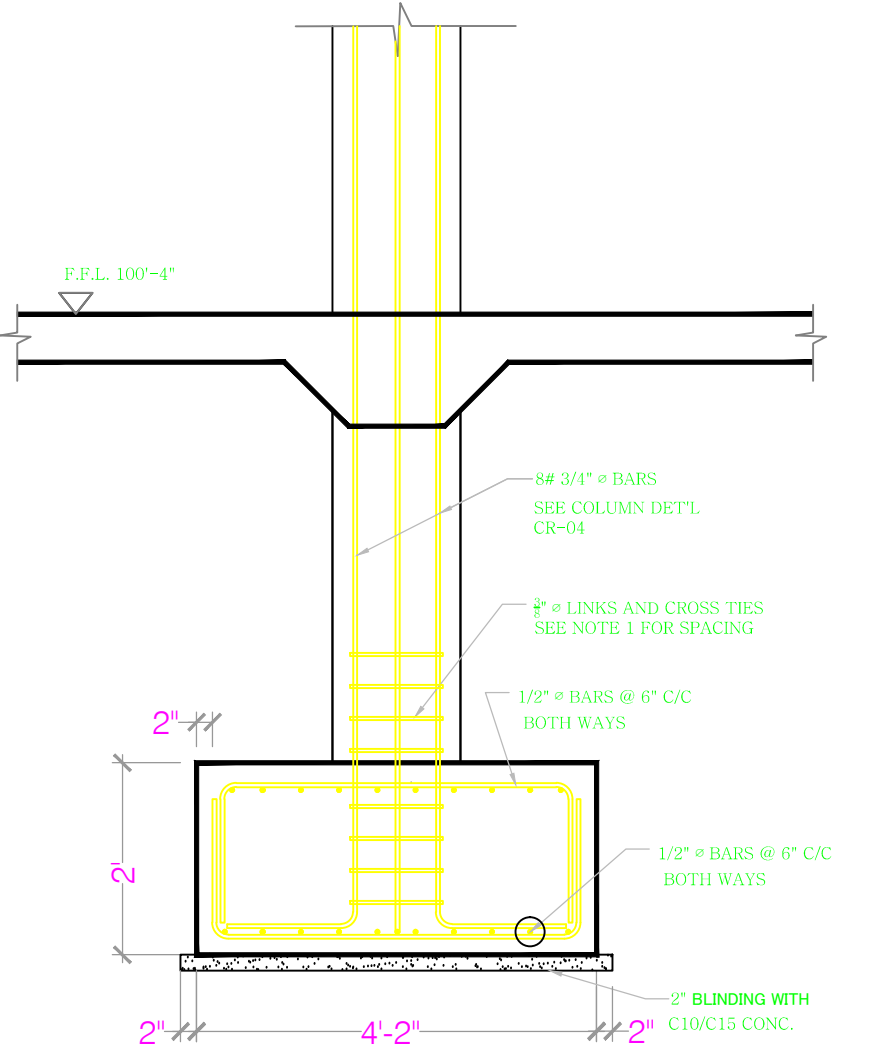
PF-02



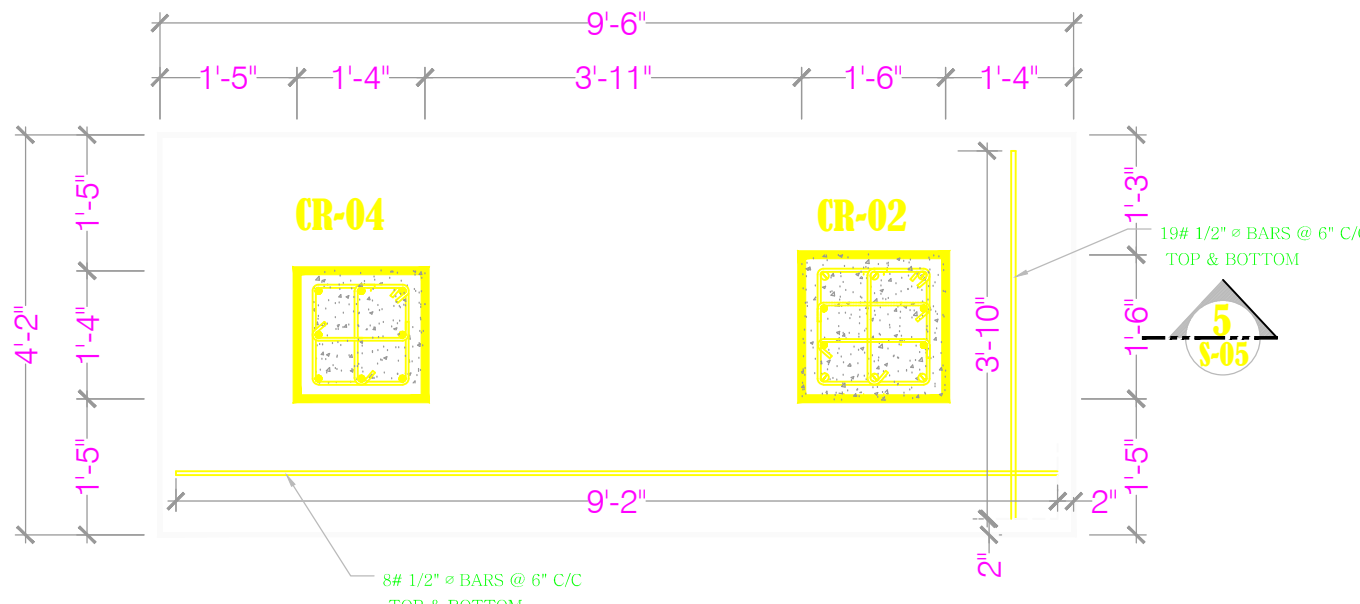
PF-02



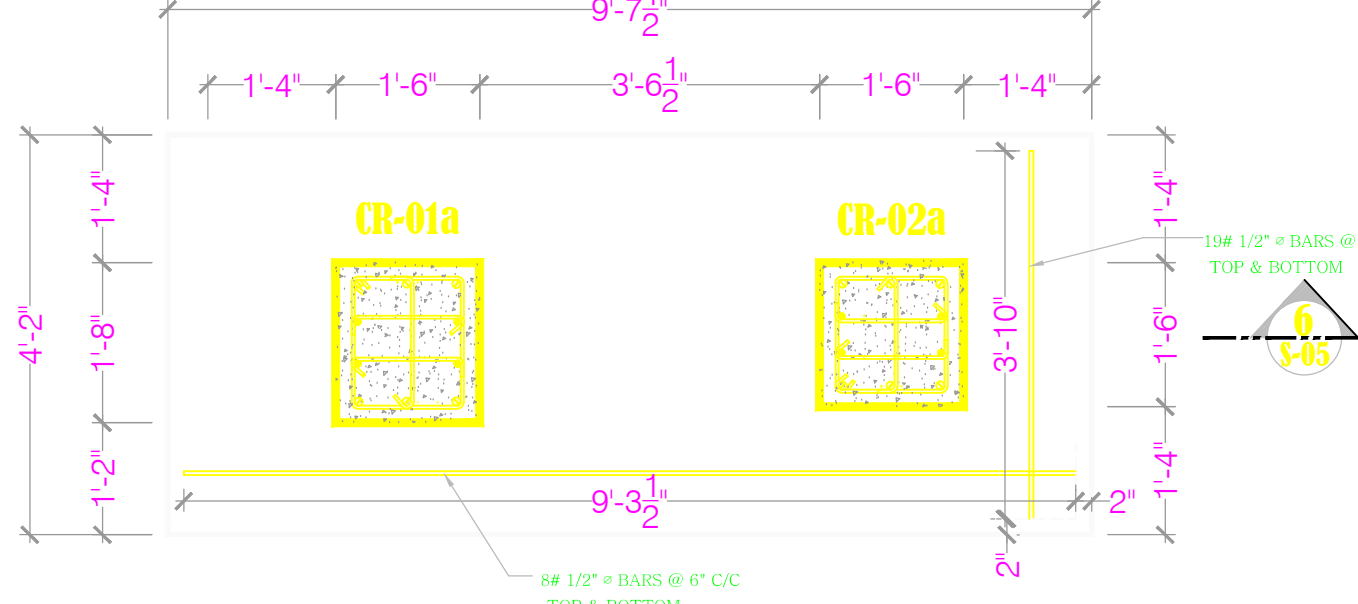
PF-02



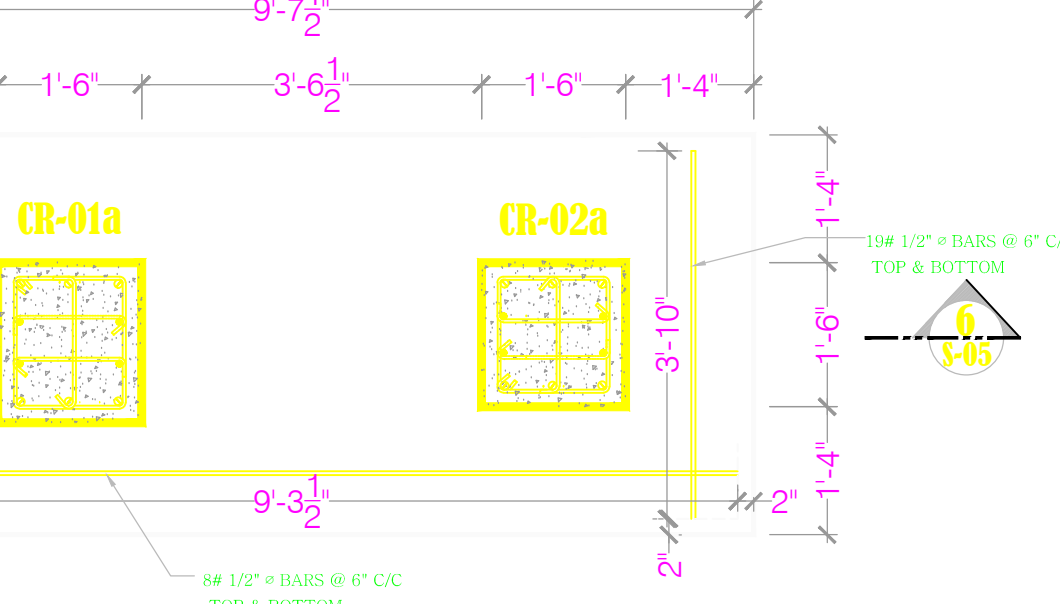
DETAIL 1



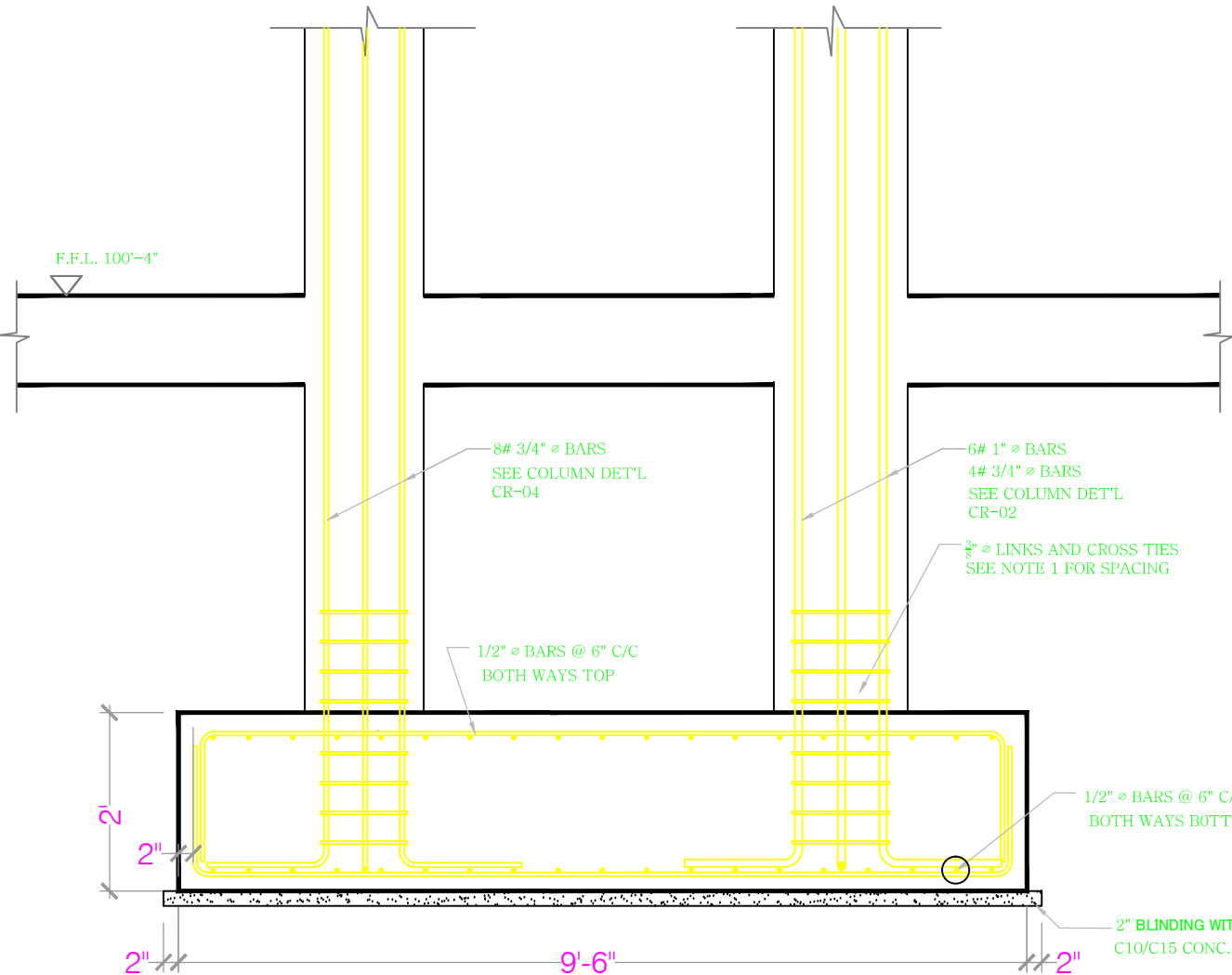
DETAIL 2



DETAIL 3

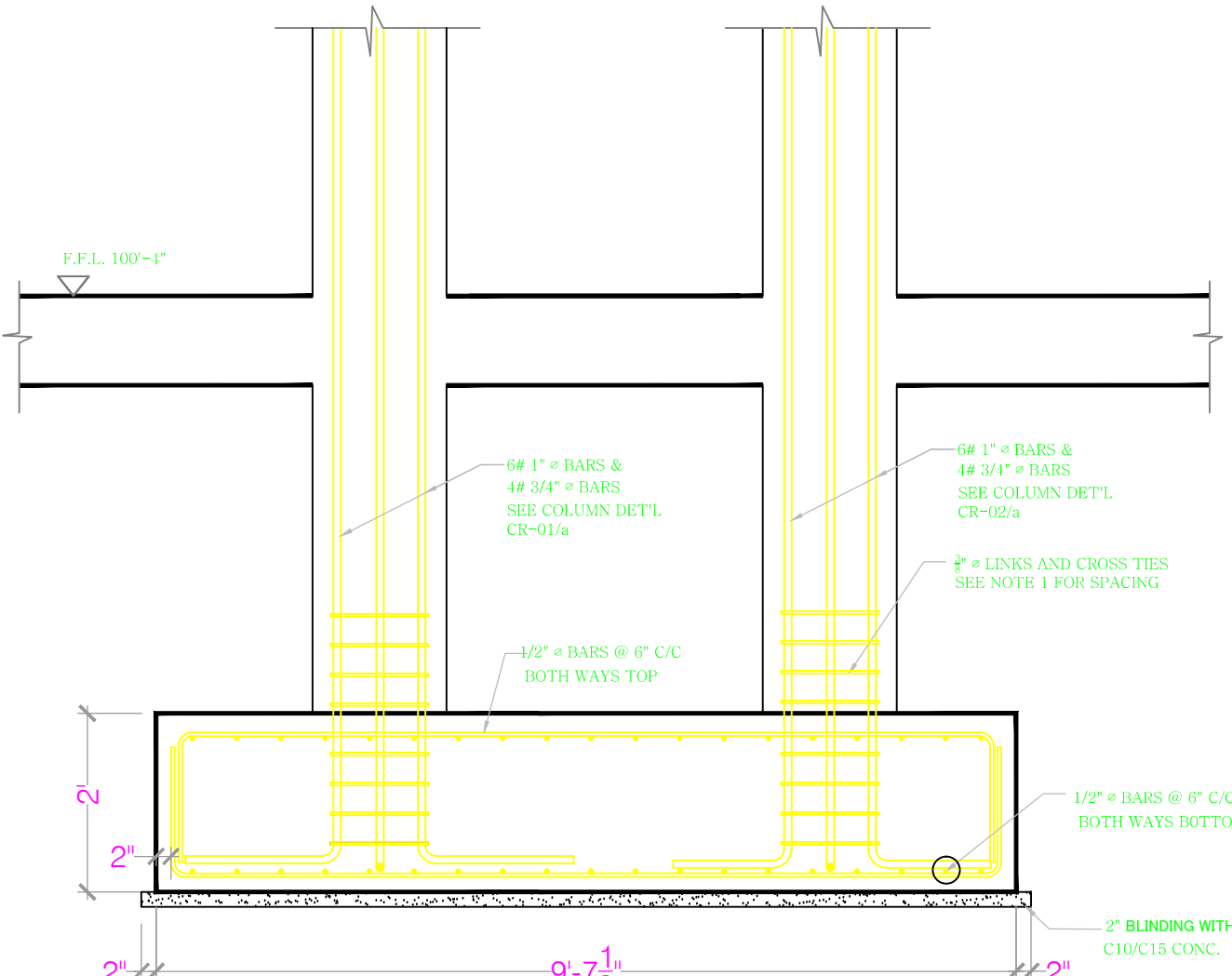


COMBINED PAD FOOTING PF-03



DETAIL 5

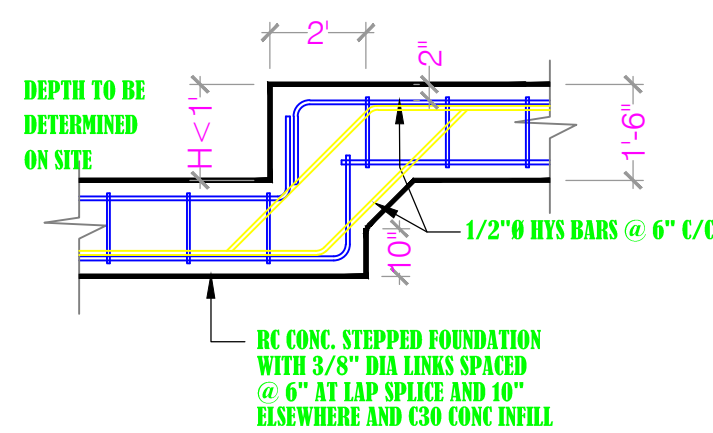
COMBINED PAD FOOTING PF-04



DETAIL 6

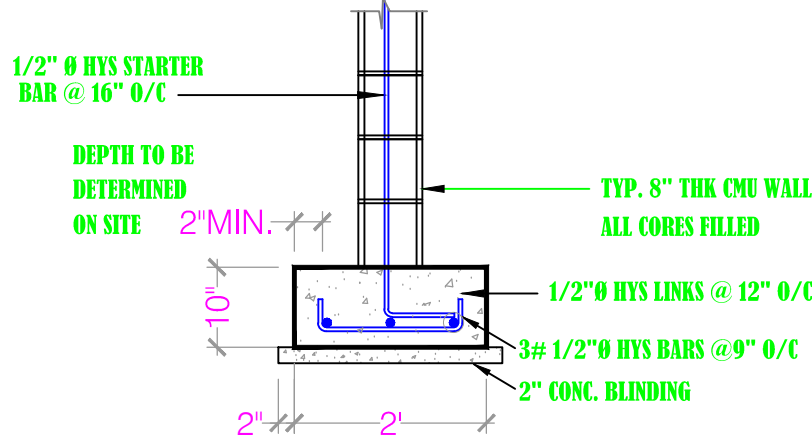
Step Footing Detail 'F1'

to be read in conjunction with strip footing F5



Step Footing Detail 'F2'

to be read in conjunction with strip footing F4



Ramp Footing 'F3'

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PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

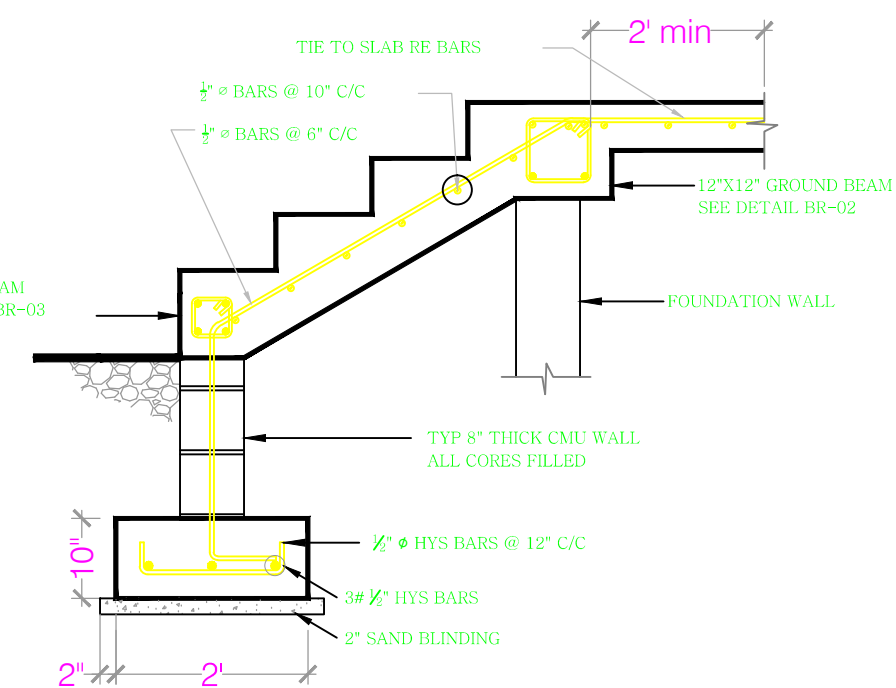
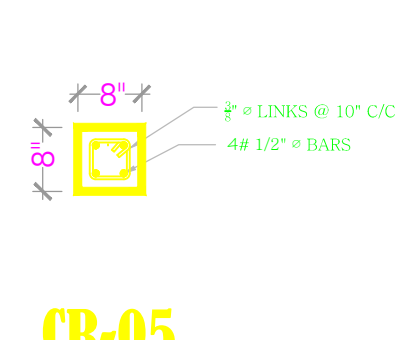
Footing Details

| | |
|----------------------|--------------------|
| PROJECT NO. P.084 | DATE 27/06/11 |
| SCALE AS SHOWN | DRAWN BY CDS/AR |
| CHECKED BY RC/HS | REV- S-05 |

7. The standard penetration resistance N of the compacted soil has to be greater than 20. Soil un-drained shear strength S_u (psf) greater than 1,000
8. Concrete cover for substructure is 2" if formwork is used and 3" if the concrete is casted directly against soil.
9. The lateral chords 2x (2"x8") are designed to take a total load of 300 lbs uniformly loaded or 150 lbs point load.
10. The distance between the 1" diameter bolt to the closest timber member edge should be minimum 4"
11. Rafter spacing at 2' C/C see roof framing drawings S-04
12. 2" x 6" MCA treated T&G sarking should be used for the roof. Roof decking needs to be secured properly to the rafter with $\frac{5}{16}$ " diameter Lag screw of minimum 3 $\frac{1}{4}$ " long at every other board.

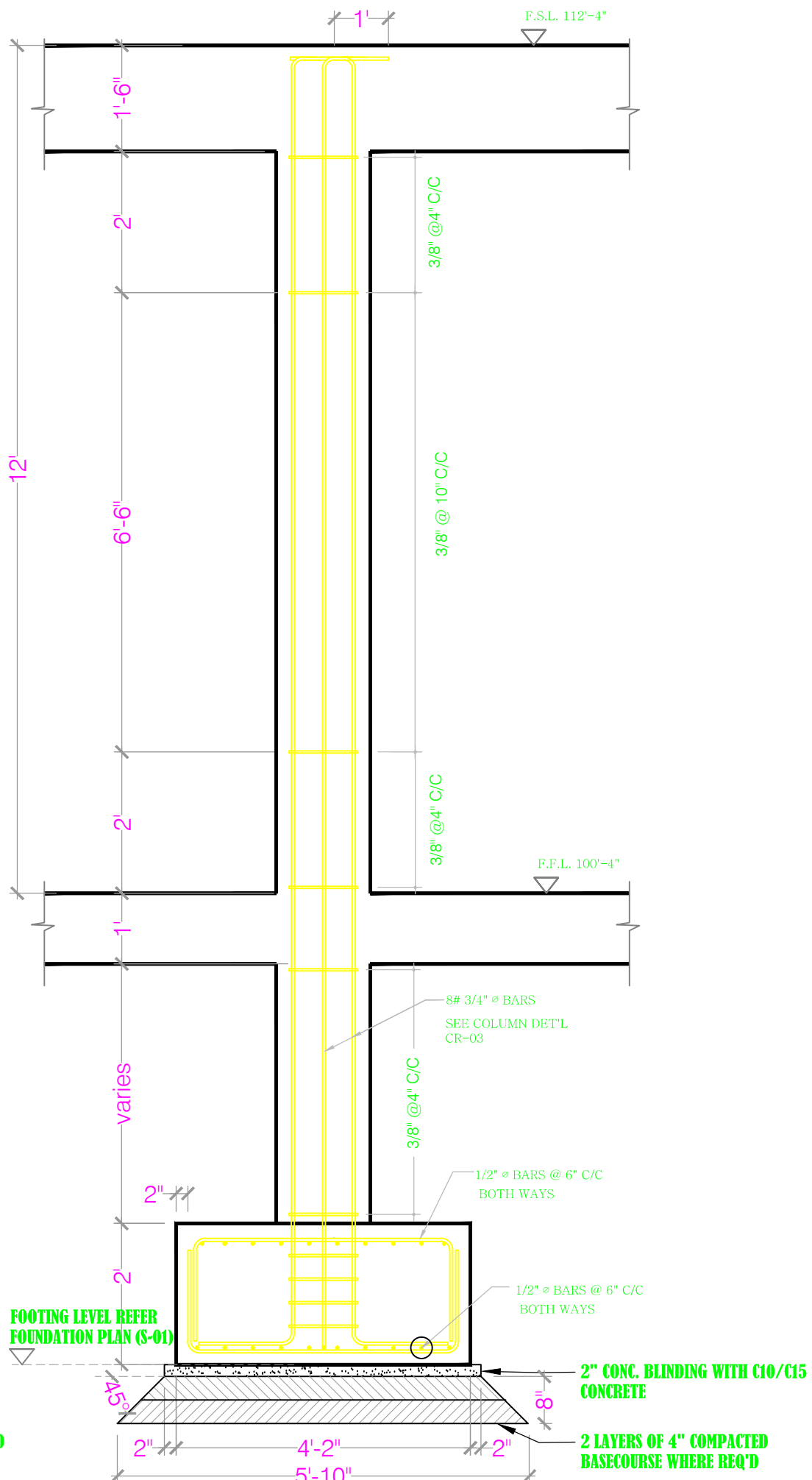


SCALE: 1/2"=1'-0'



External Stair Detail 'F6'

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



COLUMN CR-04 ON FOOTING PF-02
SCALE: 3/8"=1'-0"

PROJECT NO.
P.084

DATE
27/06/11

SCALE
AS SHOWN

DRAWN BY
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S-06

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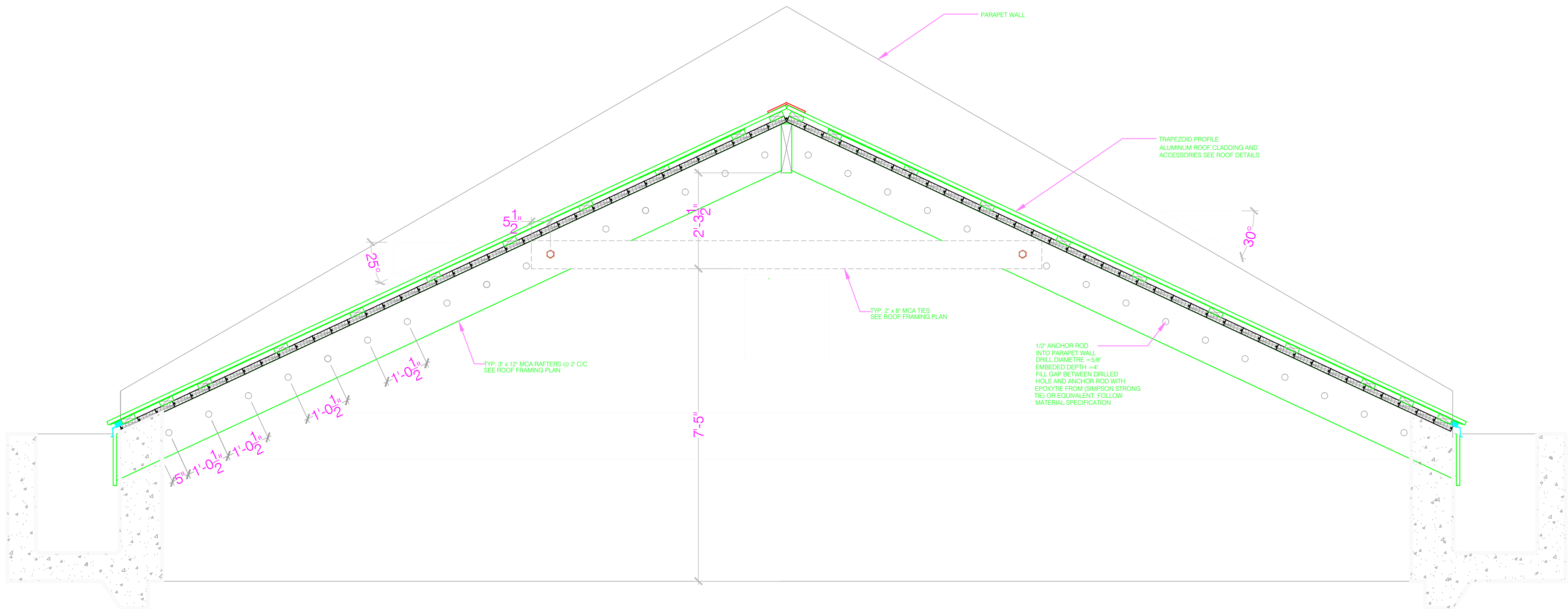
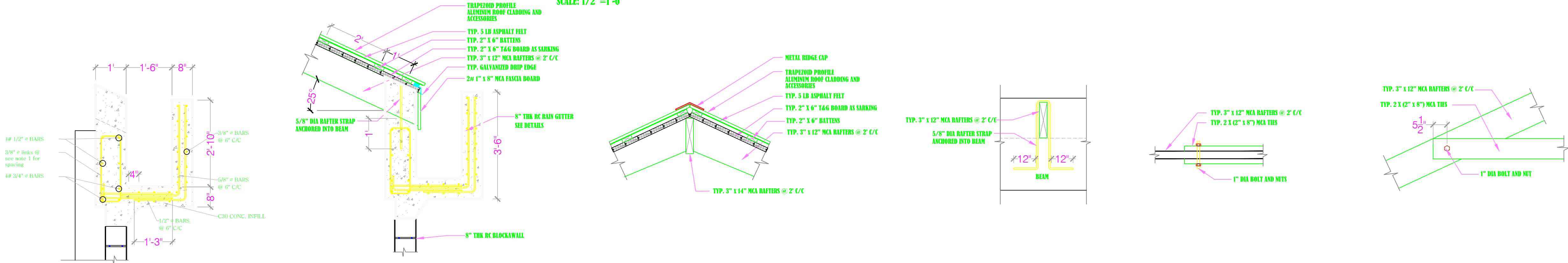
PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

Roof Connection
Details

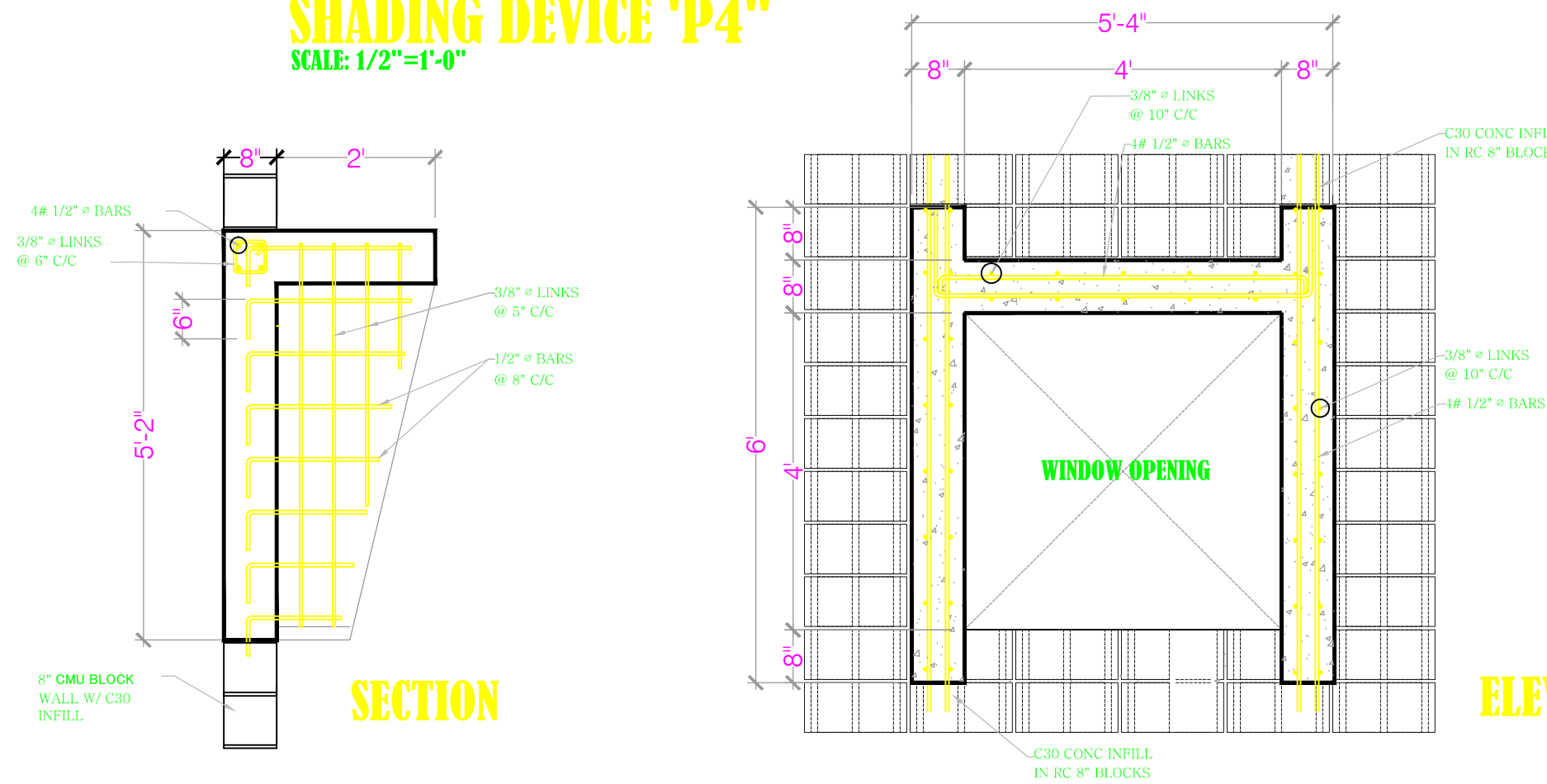
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| PROJECT NO. P.084 | |
| DATE 27/06/11 | |
| SCALE AS SHOWN | |
| DRAWN BY R.C. | S-07 |
| CHECKED BY RC.HS. | REV:- |

ROOF TO GABLE CONNECTION DETAIL
SCALE: 1/2"=1'-0"ROOF DETAILS
SCALE: 1/2"=1'-0"GUTTER DETAILS D8
SCALE: 1/2"=1'-0"

EAVE DETAIL

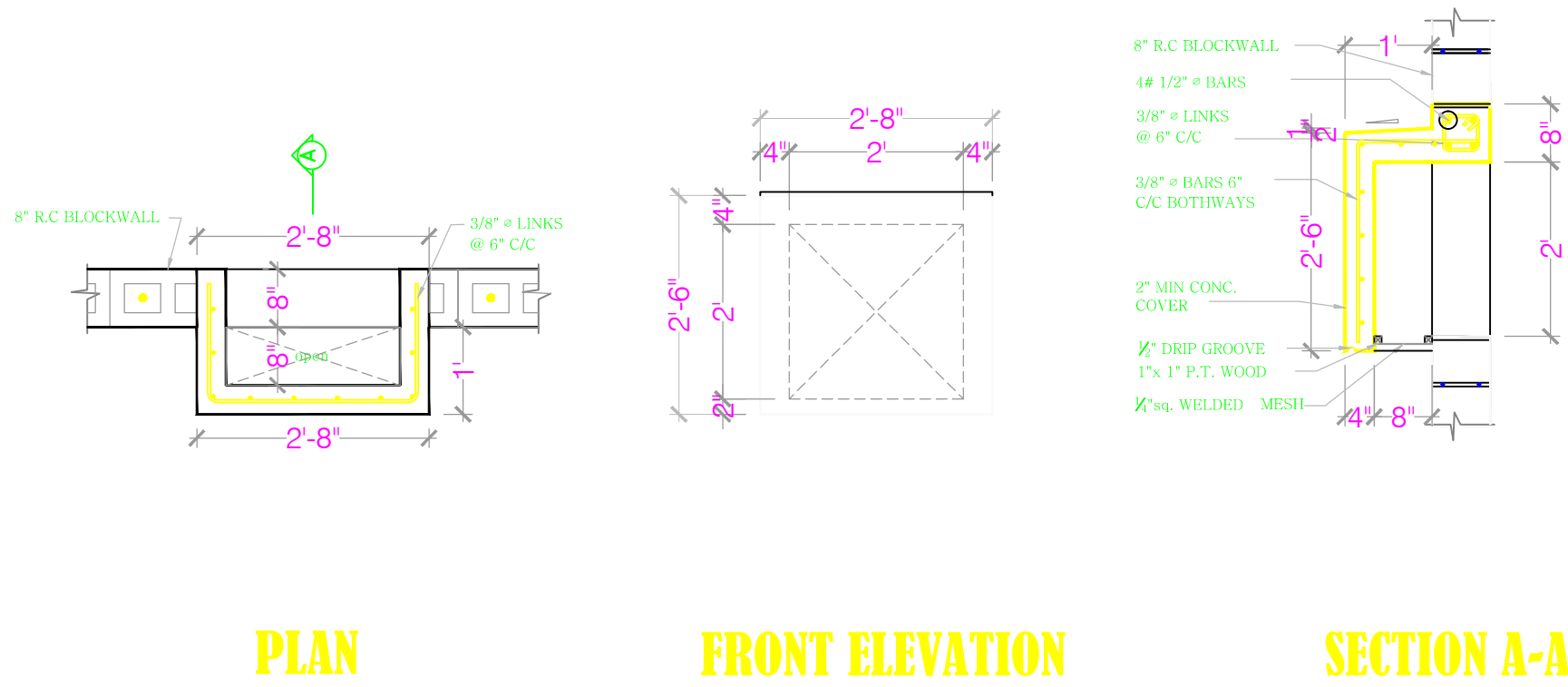
RIDGE DETAIL

CONNECTION DETAILS

SHADING DEVICE 'P4'
SCALE: 1/2"=1'-0"

SECTION

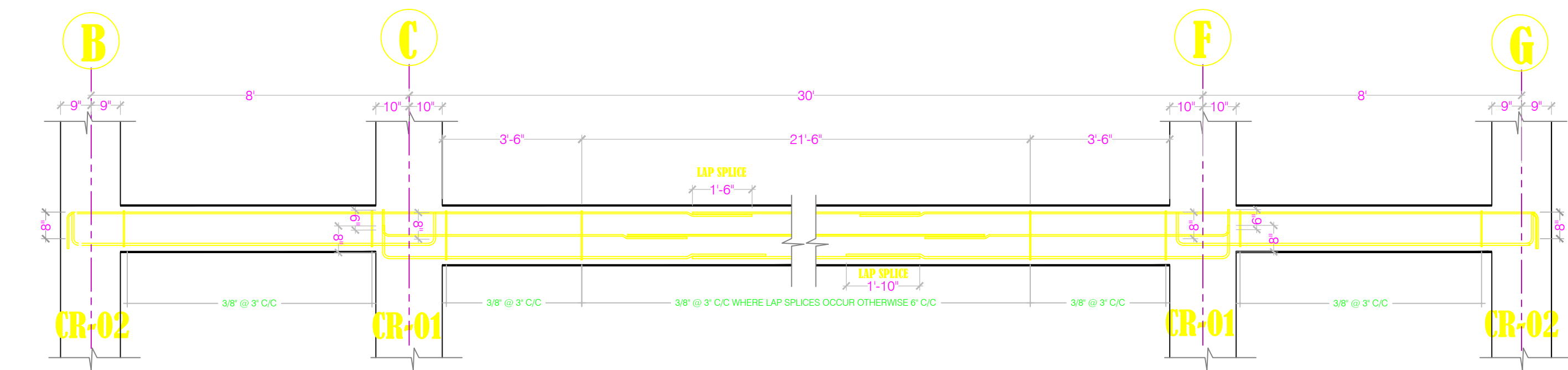
ELEVATION

VENT OPENING DETAIL 'P5'
SCALE: 1/2"=1'-0"

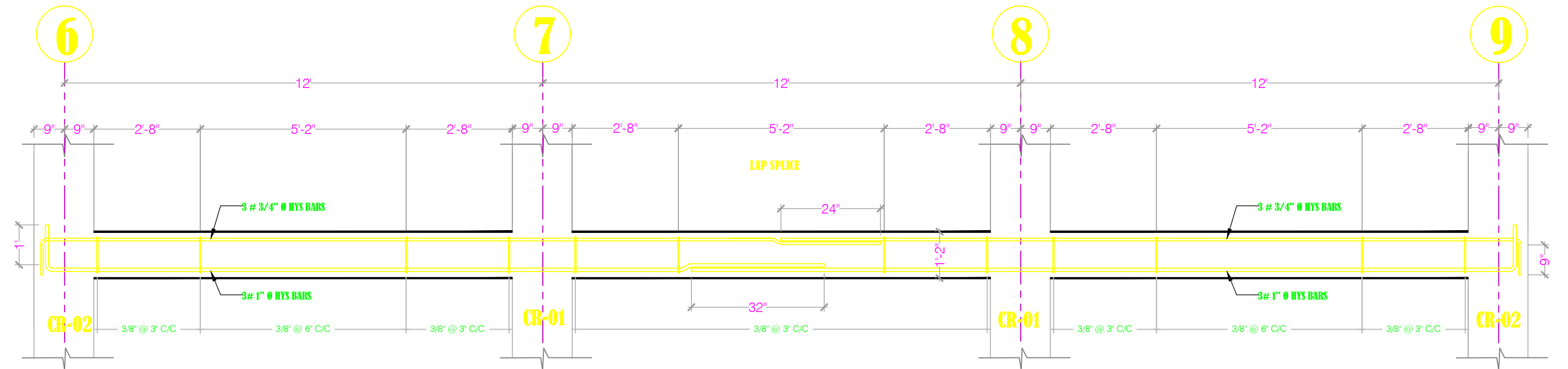
PLAN

FRONT ELEVATION

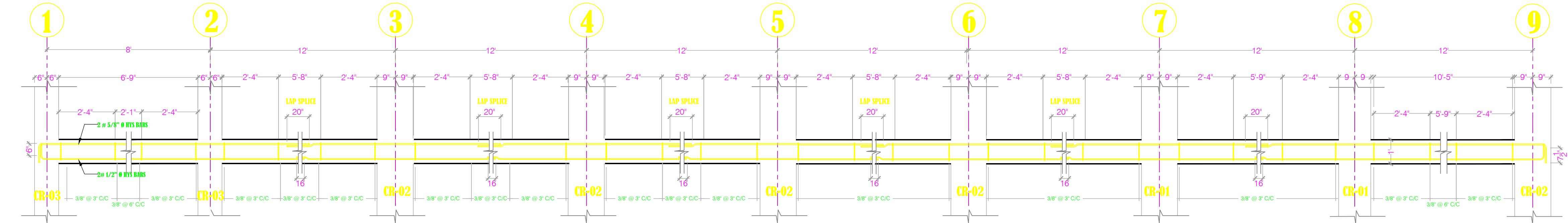
SECTION A-A



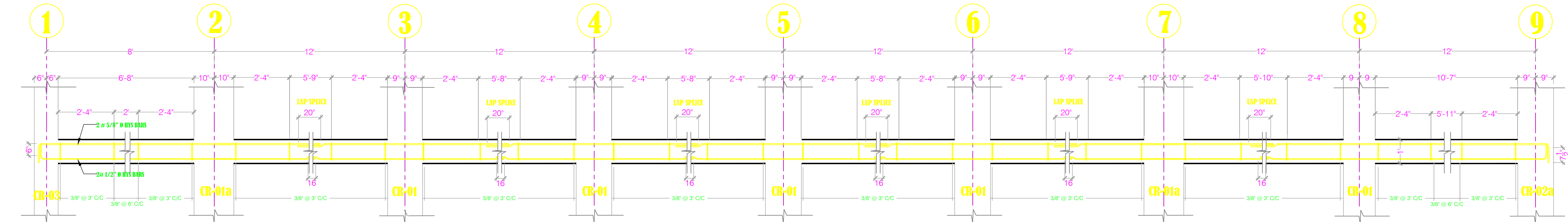
LONGITUDINAL SECTION OF BEAM ON GRID B-G LINES 3,4&5
SCALE: 3/8"=1'-0"



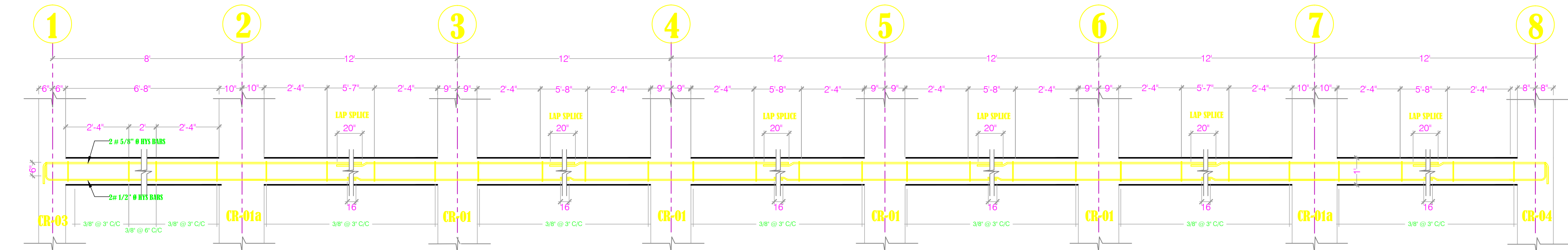
LONGITUDINAL SECTION OF BEAM ON GRID A LINES 6-9
SCALE: 3/8"=1'-0"



LONGITUDINAL SECTION OF BEAM ON GRID B LINES 1-9
SCALE: 3/8"=1'-0"



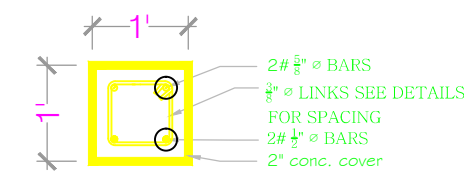
LONGITUDINAL SECTION OF BEAM ON GRID C LINES 1-9
SCALE: 3/8"=1'-0"



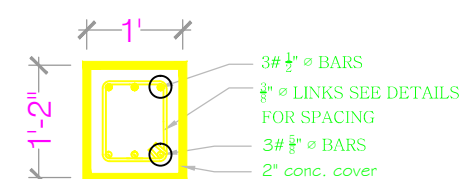
LONGITUDINAL SECTION OF BEAM ON GRID F LINES 1-8
SCALE: 3/8"=1'-0"

GROUND FLOOR BEAM DETAILS

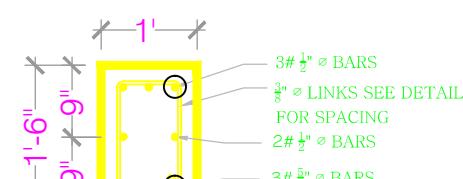
SCALE: 1/2"=1'-0"



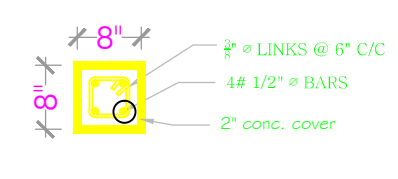
BR-01
Sy=3"
Zone B=2'-4"



BR-02
Sy=3"
Zone B=3'-0"



BR-02b
Sy=3"
Zone B=3'-0"



BR-03
See Fig 1.1

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PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

Ground Floor Beam
Details

| | |
|----------------------|-------|
| PROJECT NO. P.084 | |
| DATE 27/06/11 | |
| SCALE AS SHOWN | |
| DRAWN BY CDSI/AR | S-08 |
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PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

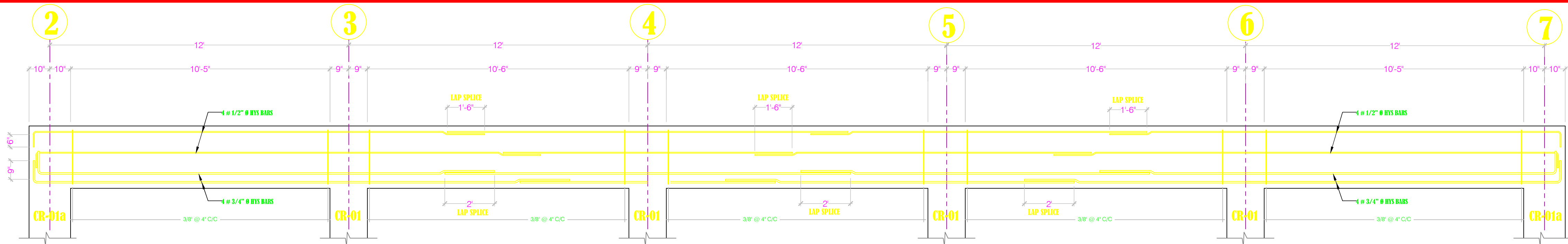
DRAWING

First Floor Beam
Details

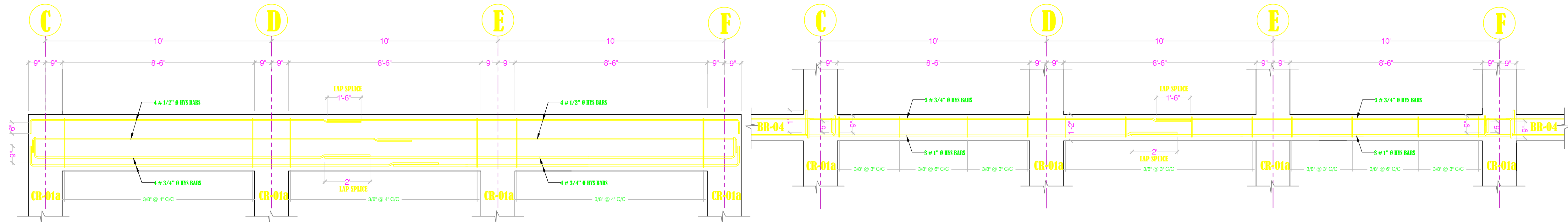
PROJECT NO.
P.084
DATE
27/06/11
SCALE
AS SHOWN
DRAWN BY
CDSI:AR
CHECKED BY
RC.HS.

S-09

REV:-

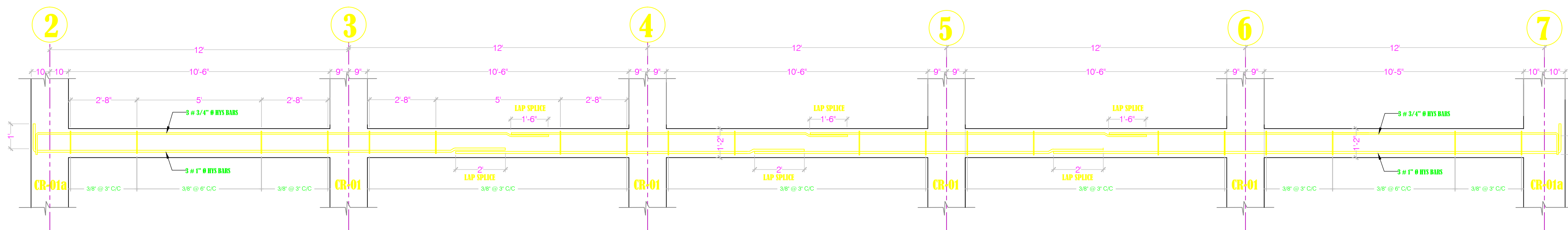


LONGITUDINAL SECTION OF BEAM (BR-07) ON GRIDS C & F LINES 2-7
SCALE: 3/8"=1'-0"

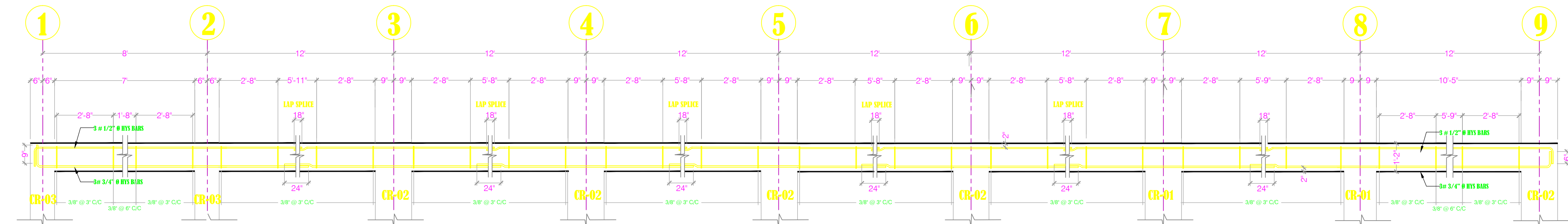


LONGITUDINAL SECTION OF BEAM (BR-07) ON GRID LINES 2 & 7
SCALE: 3/8"=1'-0"

LONGITUDINAL SECTION OF BEAM (BR-05) ON GRID LINES 2 & 7
SCALE: 3/8"=1'-0"



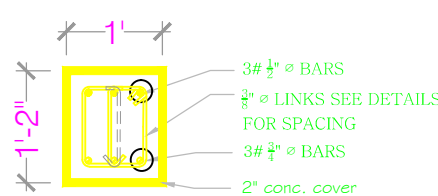
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SCALE: 3/8"=1'-0"



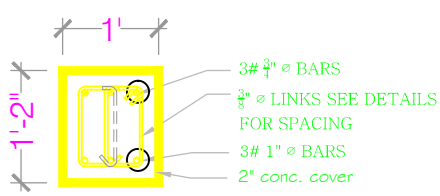
LONGITUDINAL SECTION OF BEAM (BR-04) ON GRID B LINES 1 - 9
SCALE: 3/8"=1'-0"

FIRST FLOOR BEAM DETAILS

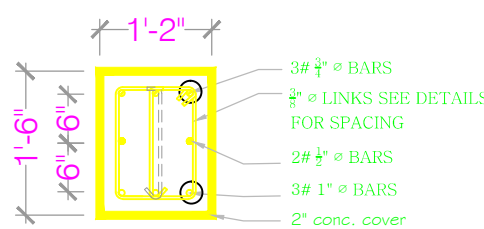
SCALE: 1/2"=1'-0"



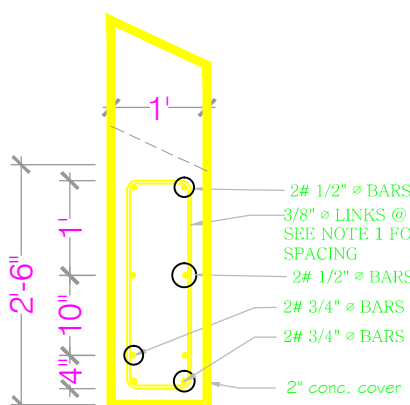
BR-04
SV=3"
Zone B=2'-8"



BR-05
SV=3"
Zone B=2'-8"

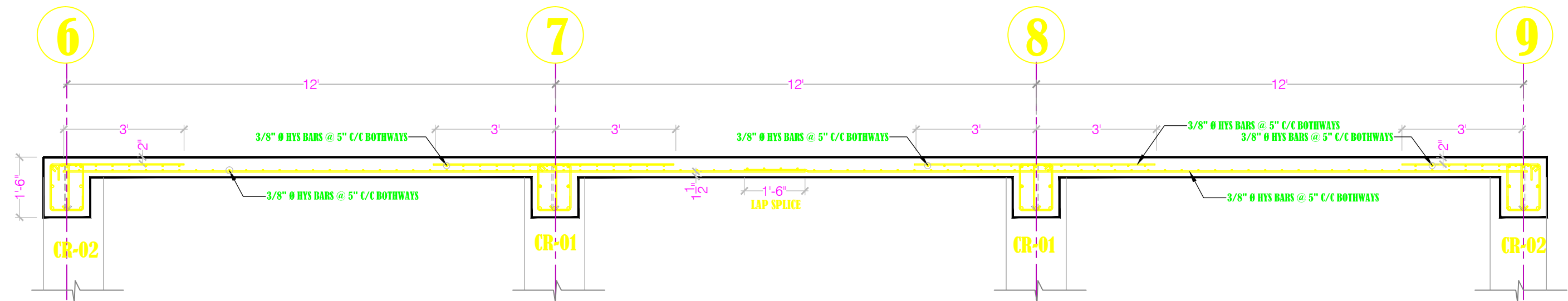


BR-06
SV=3"
Zone B=3'-6"



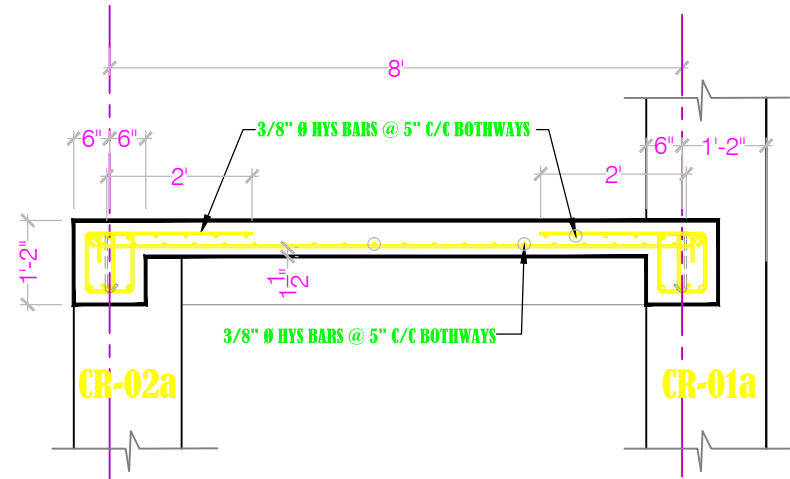
ROOF EDGE BEAM (BR-07)
SV=4"
Zone B=5'-2"

GROUND FLOOR SLAB DETAILS



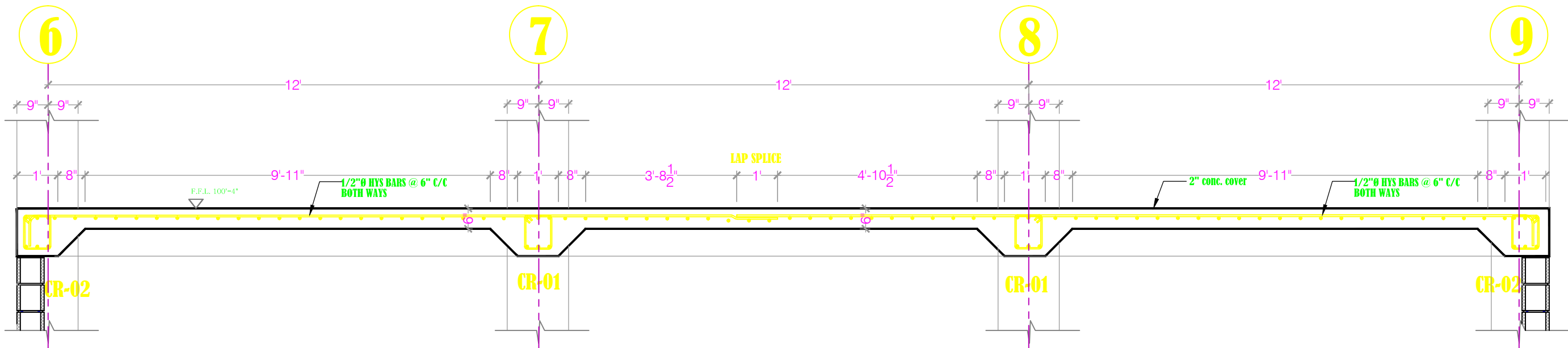
Slab Section 'S3'

SCALE: 3/8"=1'-0"



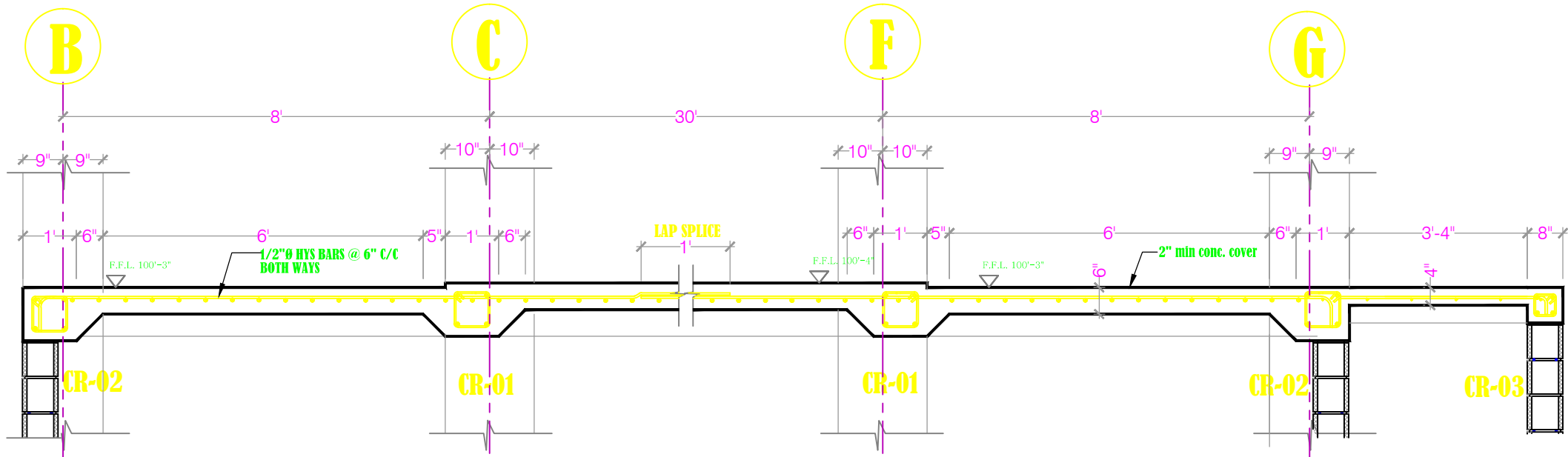
Slab Section 'S4'

SCALE: 3/8"=1'-0"



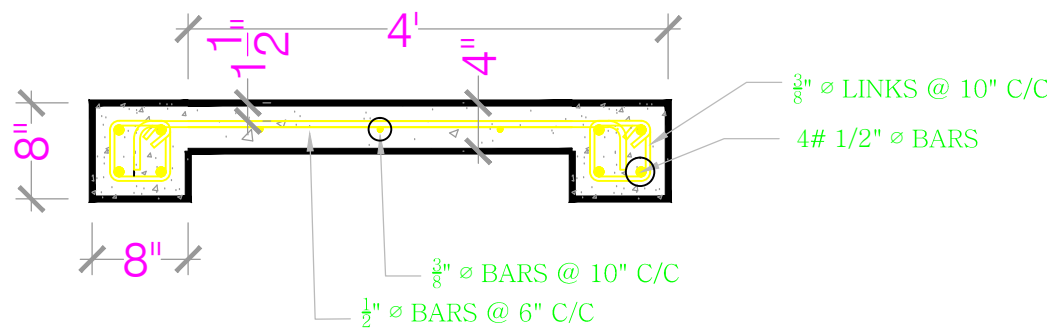
Slab Section 'S2'

SCALE: 3/8"=1'-0"



Slab Section 'S1'

SCALE: 3/8"=1'-0"



Slab section thru' ramp 'X'

SCALE: 3/4"=1'-0"

PWD

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Ministry of
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& Works

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E: gov.arch@candw.ag

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| Δ | Date | Description |
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PROJECT
Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING
SLAB SECTIONS

| | |
|----------------------|-------|
| PROJECT NO. P.084 | |
| DATE 27/06/11 | |
| SCALE AS SHOWN | |
| DRAWN BY CDSI:AR | S-10 |
| CHECKED BY RC:HS | REV:- |

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|-----------|--|--|
| | | |

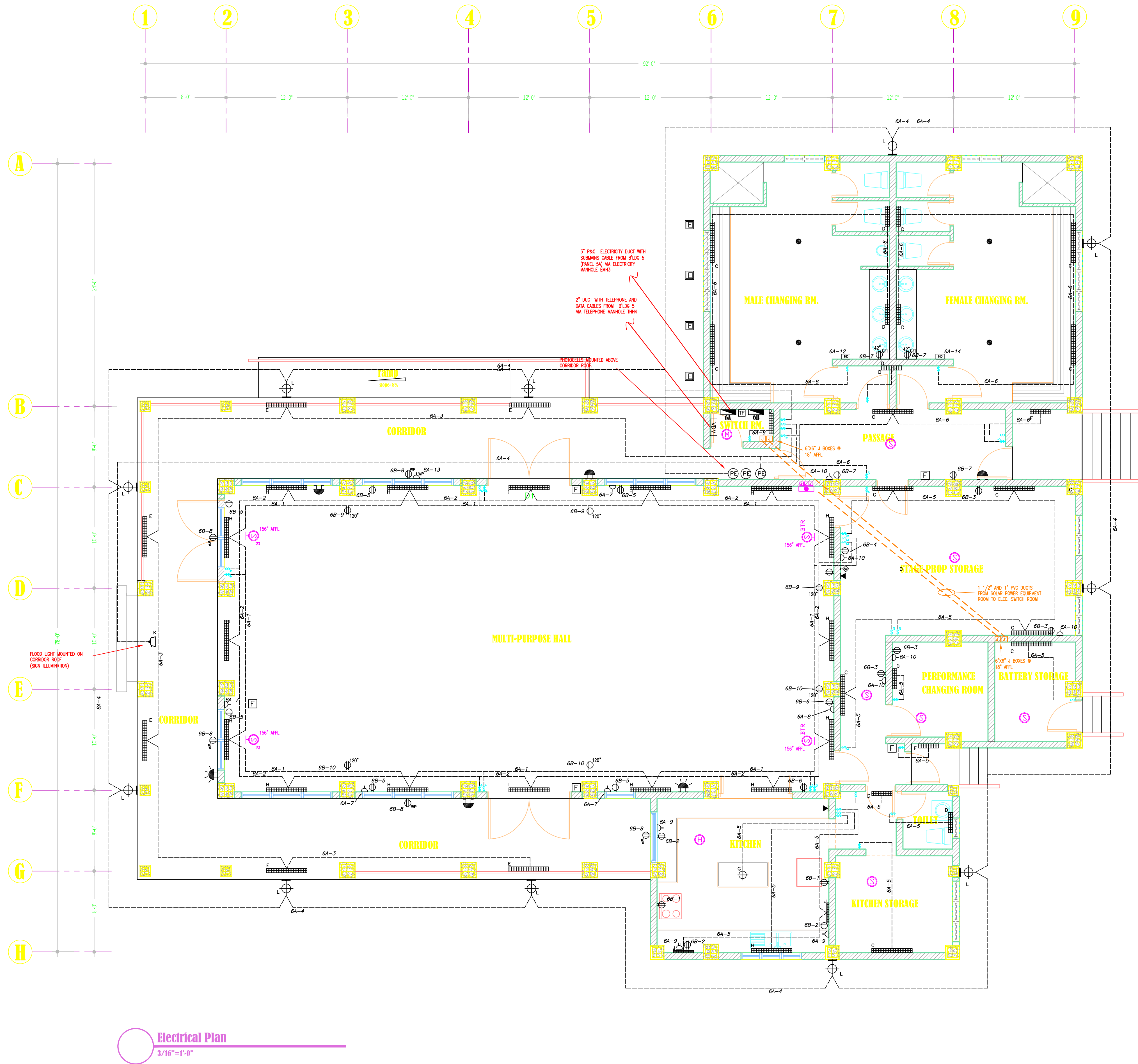
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Lookout Primary
School Extension
-Multi-purpose Hall

Duct Plan

REV:-



Electrical Plan
3/16"=1'-0"

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Ministry of Communications & Works

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| A | MM/DD/YY | Date | Description |
|---|----------|------|-------------|
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PROJECT

Lookout Primary School Extension
-Multi-purpose Hall

DRAWING

Electrical & Fire Plan

| | |
|----------------------|------|
| PROJECT NO. P.084 | E-01 |
| DATE 27/06/11 | |
| SCALE 3/16"=1'-0" | |
| DRAWN BY K. Lee | |
| CHECKED BY RC.HS. | |

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PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

FIRE ALARM SCHEMATIC
AND SCEDULES

PROJECT NO.
P.084
DATE
27/06/11
SCALE
3/16"=1'-0"
DRAWN BY
K.Lee
CHECKED BY
RC.HS.
E-02
REV:-

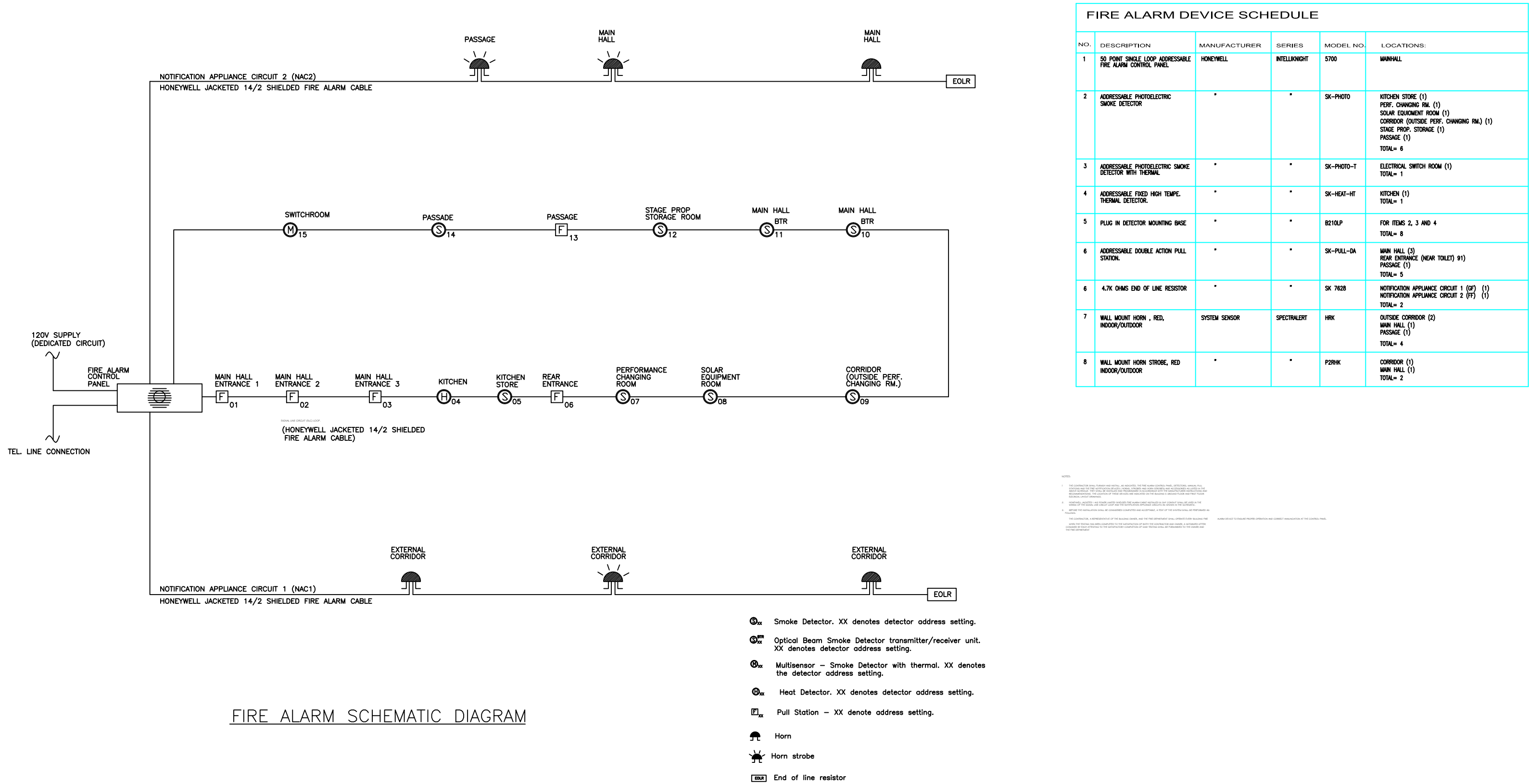
| PANELBOARD SCHEDULE | | | | | | | | | | | | | |
|---------------------|---|--|--|------------------|------------------------------|-----------------|------------------------------|-------------|--|-----|--|--|--|
| PANEL NO. | DESCRIPTION | LOCATION: | ELECTRICAL ROOM | MAIN: | 125A SWITCH (3 POLE) | EST. LOAD: | 11 KVA | | | | | | |
| 6A | 230V POWER AND LIGHTING MULTIPURPOSE HALL | VOLTAGE: | 240 / 415V | SYSTEM: | 3 PHASE 4 WIRE | FED FROM: | MAIN DISTRIBUTION | MAIN CABLE | 35MM 4 CORE CABLE | | | | |
| | | TRIM: | FLUSH MOUNTED – 6 TP WAYS (18 SPACES) | CIRCUIT BREAKER: | WIRE SIZE (MM ²) | NO. OF PIS. | LOAD SERVED | | | | | | |
| CCT | LOAD SERVED | NO. OF PIS. | WIRE SIZE (MM ²) | TYPE | EST. LOAD (A) | CIRCUIT BREAKER | WIRE SIZE (MM ²) | NO. OF PIS. | LOAD SERVED | CCT | | | |
| 1 | LIGHTS: MAIN HALL (1) | 7 | 1.5 | 10/1 | C | N | 2.5 | 1.9 | LIGHTS: MAIN HALL (2) | 2 | | | |
| 3 | LIGHTS: EXTERNAL CORRIDOR | 6 | 1.5 | 10/1 | C | N | 2.5 | 5.0 | LIGHTS: EXTERNAL – CORNER LIGHTS | 4 | | | |
| 5 | LIGHTS: KIT., STORAGE, PERF. CHANGING RM | 14 | 1.5 | 10/1 | C | N | 2.5 | 2.4 | LIGHTS: PASSAGE, SW. RM & CHANG. RM'S | 6 | | | |
| 7 | OUTLETS: MAIN HALL (1) | 4 | 2.5 | 16/1 | C | Y | 6.0 | 2.0 | OUTLETS: MAIN HALL (2) | 8 | | | |
| 9 | OUTLETS: KITCHEN | 3 | 4.0 | 20/1 | C | Y | 12.0 | 2.5 | OUTLETS: STAGE, PROP. STORAGE & CH. RM | 10 | | | |
| 11 | PANEL 6B VIA 5 KVA TRANSFORMER | 1 | 4.0 | 20/1 | C | N | 1.0 | 12.0 | HAND DRYER – MALE CHANGING ROOM | 12 | | | |
| 13 | OUTLETS: CORRIDOR | 1 | 2.5 | 16/1 | C | N | 1.0 | 12.0 | HAND DRYER – FEMALE CHANGING ROOM | 14 | | | |
| 15 | SPARE | | | | | | | | SPARE | 16 | | | |
| 17 | SPARE | | | | | | | | SPARE | 18 | | | |
| | | CONNECTED LOAD | | 20.3 | 23.4 | 20.4 | | | | | | | |
| | | ESTIMATED LOAD (DEMAND FACTOR APPLIED) | | 21.0 | 18.0 | 27.0 | | | | | | | |

| PANELBOARD SCHEDULE | | | | | | | | | | | | | |
|---|--|------------------------|----------------|---------|-------|-----------------|--------------------|--------------------------|------|--|--|--|--|
| PANEL NO. | DESCRIPTION | LOCATION: | | | | SWITCH ROOM | | | | | | | |
| 6B | 120V OUTLET CIRCUITS MULTIPURPOSE HALL | VOLTAGE: | 120V | | TRIM: | | FLUSH - 13WAY SPAN | | | | | | |
| | MAIN: | 100A SWITCH DISCONNECT | EST. LOAD: | 4.6 KVA | | FED FROM: | | PANEL 6A VIA 5.0 KVA 1/F | | | | | |
| | SYSTEM: | 1 PHASE 2 WIRE | | | | | | | | | | | |
| BUS RATING: | 100A | | | | | WIRE CABLES: | | 16.0 MM | | | | | |
| QTY | LOAD SERVED | NO. OF PTS | WIRE SIZE (MM) | | | CIRCUIT BREAKER | | EST. LOAD | | | | | |
| | | | PHASE | NEUT. | OND | A / ANGLES | TYPE | ROD (7/8) | | | | | |
| 1 | 120V OUTLETS: KITCHEN (1) | 2 | 2.5 | 2.5 | 2.5 | 16/1 | C | N | 6.0 | | | | |
| 2 | 120V OUTLETS: KITCHEN (2) | 3 | 2.5 | 2.5 | 2.5 | 20/1 | C | N | 12.0 | | | | |
| 3 | 120V OUTLETS: STAGE PROP. STORAGE & PERF. CHANGING ROOM. | 3 | 2.5 | 2.5 | 2.5 | 16/1 | C | N | 3.0 | | | | |
| 4 | 120V OUTLETS: STAGE PROP. STORAGE | 1 | 2.5 | 2.5 | 2.5 | 20/1 | C | N | 12.0 | | | | |
| 5 | 120V OUTLETS: MAIN HALL (1) | 7 | 2.5 | 2.5 | 2.5 | 20/1 | C | N | 3.0 | | | | |
| 6 | 120V OUTLETS: MAIN HALL (2) | 3 | 2.5 | 2.5 | 2.5 | 20/1 | C | N | 6.0 | | | | |
| 7 | 120V OUTLETS: PASSAGE AND CHANGING RM's | 4 | 2.5 | 2.5 | 2.5 | 16/1 | C | N | 2.0 | | | | |
| 8 | 120V OUTLETS: CORRIDOR | 4 | 2.5 | 2.5 | 2.5 | 16/1 | C | N | 2.0 | | | | |
| 9 | WALL MOUNTED FAN OUTLETS (1) | 3 | 2.5 | 2.5 | 2.5 | 16/1 | C | N | 9.0 | | | | |
| 10 | WALL MOUNTED FAN OUTLETS (2) | 3 | 2.5 | 2.5 | 2.5 | 16/1 | C | N | 9.0 | | | | |
| 11 | FIRE ALARM CONTROL PANEL | 1 | 2.5 | 2.5 | 2.5 | 16/1 | C | N | 2.5 | | | | |
| 12 | SPARE | | | | | | | | | | | | |
| 13 | SPARE | | | | | | | | | | | | |
| TOTAL CONNECTED LOAD (A) | | | | | | | | | 64.5 | | | | |
| ESTIMATED LOAD (DEMAND FACTOR APPLIED) | | | | | | | | | 38.0 | | | | |

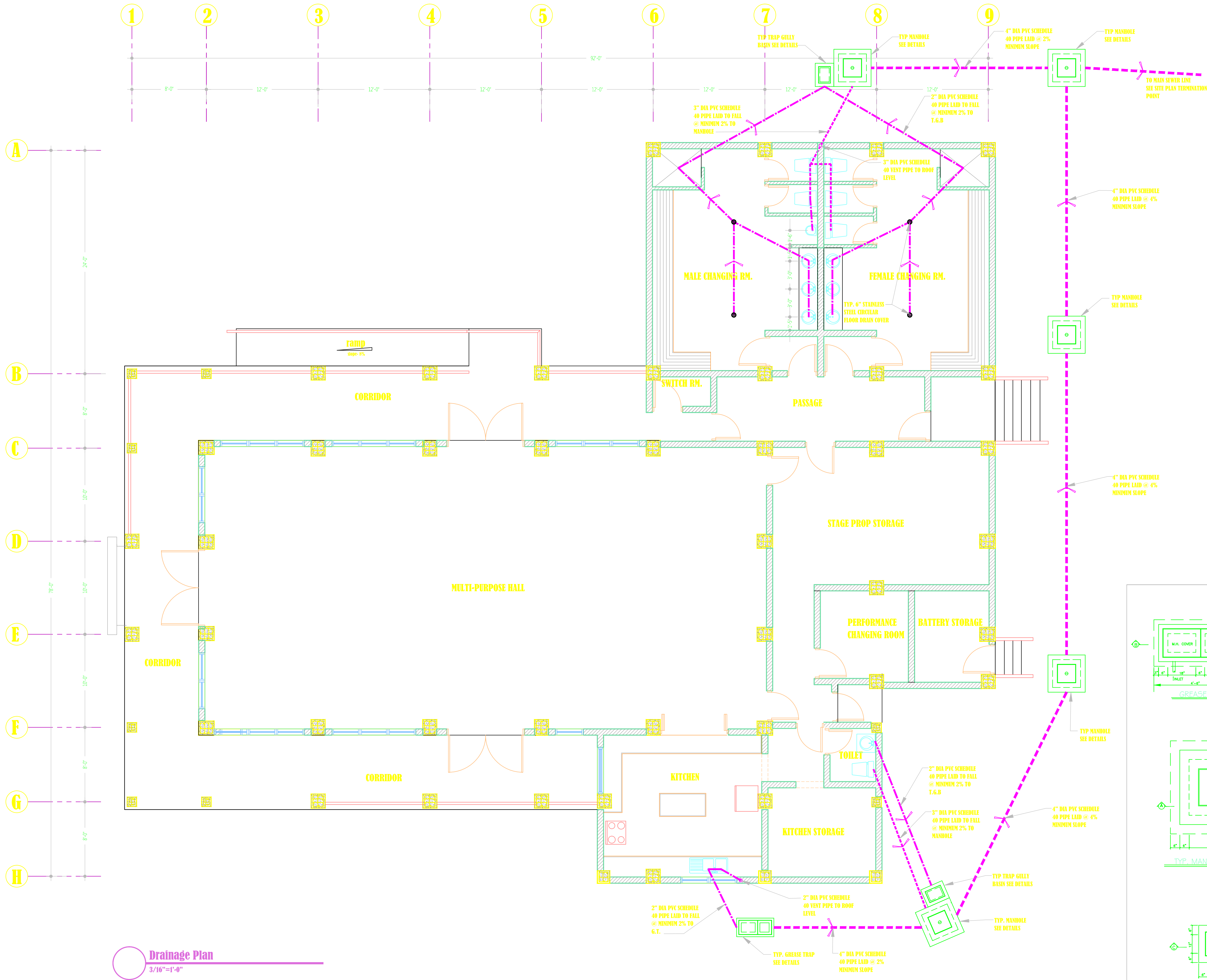
LIGHTING FIXTURE SCHEDULE

| REF. | DESCRIPTION | OVERALL SIZE (W X H X D) | V | Hz | LAMP TYPE & RATING | MANUFACTURER | CATALOG No. | LOCATION | QTY |
|------|--|---------------------------|------|----|--------------------|----------------------|-----------------|--|-----------------------|
| A | 4' Fl. Fixture w/ diffuser - pendant | 49" x 11" | 230V | 60 | 3 X 32W T8 | TAMLITE LIGHTING USA | HB3432D CH | N/A | |
| B | 4' Fl. Fixture w/ diffuser - pendant | 49" x 11" | 230V | 60 | 2 X 32W T8 | TAMLITE LIGHTING USA | HB2432D CH | N/A | |
| C | 4' Fl. Fixture w/ diffuser | 48"x4 1/2" | 230V | 60 | 1 x 32W T8 | TAMLITE LIGHTING USA | WBC1432D | Changing Rooms Passage Stage Prop Storage Solar Equipment Room Kitchen Storage | 4 1 4 1 1 |
| D | 2' Fl. Fixture w/ diffuser | 24" x 4 1/2" | 230V | 60 | 1 X 17W T8 | TAMLITE LIGHTING USA | WBC1217D | Toilet Passage (outside toilet) Part. Changing Room Changing Rooms Switch Room | 1 1 1 5 1 |
| E | 4' Fl. Fixture - IP67 rated for indoor/outdoor use | 51-7/8" x 7-5/16" | 230V | 60 | 1 x 32W T8 | TAMLITE LIGHTING USA | CT1432D | Corridor | 6 |
| F | 2' Fl. Fixture - IP67 rated for indoor/outdoor use | 26" x 6 1/2" | 230V | 60 | 2 x 17W T8 | TAMLITE LIGHTING USA | NCF2217D | Back Entrances | 2 |
| G | Ceiling Mount Compact Fluorescent Fixture | 15" X 9-1/2" | 230V | 60 | 1 x 32W PL | TAMLITE LIGHTING USA | ACCOC1X32DLB | Kitchen | 1 |
| H | 4' Fl. Fixture w/ diffuser | 48"x4 1/2" | 230V | 60 | 2 X 32W T8 | TAMLITE LIGHTING USA | WBM2432D | Kitchen Main Hall | 1 13 |
| I | 4' Fl. Fixture w/ diffuser W/ Emergency ballast | 48"x4 1/2" | 230V | 60 | 2 X 32W T8 | TAMLITE LIGHTING USA | WBM2432DB1 | Main Hall | 3 |
| J | Solid Front Under Shelf Fluorescent Luminaire | 24" X 5" | 230V | 60 | 1 X 17W T8 | LIGHTOLIER | TCF117WUNVHIBPR | Kitchen | 2 |
| K | Floodlight Fixture | 9" x 7.5" x 6" | 230V | 60 | 1 X 42W PL | TAMLITE LIGHTING USA | SF1X42DL | Sigh Light at Front | 1 |
| L | Wall Mounted Outdoor Compact Fluorescent Fixtures | 12 x12 x 7" | 230V | 60 | 2 X 42W PL | TAMLITE LIGHTING USA | VIV242AEL | External building Wall Mounted Lights | 11 |

| LEGEND | |
|--------|---|
| SYMBOL | DESCRIPTION |
| ⌚ | One way - one gang switch |
| ⌚ | Two way - one gang switch (3 poles) |
| ⌚ | Intermediate Switch (4 Poles) |
| ⌚ | Fan control switch |
| ⌚ | 120 V Outlets @ 18" A.F.F.L (or as indicated) |
| ⌚ | 120 V Quadruplex Outlet @ 18" A.F.F.L |
| ⌚ | 230 V 2 Gang Outlets @ 18" A.F.F.L (or as indicated) |
| ⌚ | 230 V 1 Gang Outlets @ 18" A.F.F.L (or as indicated) |
| ⌚ | 120 V Outlet (weather Proof) |
| ⌚ | 230 V Outlet (weather Proof) |
| ⌚ | Electrical Panelboard |
| ⌚ | Photocell |
| ⌚ | 240 / 120V Double wound transformer "XX" denotes the KVA |
| ⌚ | Telephone jack |
| ⌚ | Data Outlet (RJ45) |
| ⌚ | Video / CTV Jack |
| X | 4' Fluorescent Fixture with clear acrylic diffuser "X" denote the Fixture type reference on the Lighting Fixture Schedule. |
| X | 2' Fluorescent Fixture with clear acrylic diffuser "X" denote the Fixture type reference on the Lighting Fixture Schedule. |
| X | Ceiling mounted light fixture. "X" denote the Fixture type reference on the Lighting Fixture Schedule. |
| E | Copper bond earth rod in inspection pit |
| HD | Hand Dryer |
| ⌚ | Ceiling Mounted Fan |
| PBX | Telephone System Main Control Panel |
| VDD | Voice /Data / Video Distribution Box |
| ⌚ | Fire Alarm Panel |
| ⌚ | Smoke Detector |
| ⌚ | Optical beam smoke detector - transmitter/receiver unit |
| ⌚ | Optical beam smoke detector - reflector unit |
| ⌚ | Heat (Thermal) Detector |
| ⌚ | Multisensor - Smoke and Heat (Thermal) |
| ⌚ | Pull Station (Manual Call Point) |
| ⌚ | Sounder (Horn) |
| ⌚ | Combined Sounder / Strobe |
| ⌚ | Strobe |



| FIRE ALARM DEVICE SCHEDULE | | | | | |
|----------------------------|--|---------------|--------------|------------|--|
| NO. | DESCRIPTION | MANUFACTURER | SERIES | MODEL NO. | LOCATIONS: |
| 1 | 56 FIRE SIGNAL LOOP ADDRESSABLE FIRE ALARM CONTROL PANEL | HONEYWELL | WELLBURST | 5700 | MAIN HALL |
| 2 | ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR | * | * | SK-PHOTO | KITCHEN STORE (1) PERF. CHANGING RM. (1) SOLAR EQUIPMENT ROOM (1) CORRIDOR (OUTSIDE PERF. CHANGING RM.) (1) STAGE PROP. STORAGE (1) PASSAGE (1) TOTAL= 6 |
| 3 | ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR WITH THERMAL | * | * | SK-PHOTO-T | ELECTRICAL SWITCH ROOM (1) TOTAL= 1 |
| 4 | ADDRESSABLE THERM THERM. THERMAL DETECTOR | * | * | SK-HEAT-RT | KITCHEN (1) TOTAL= 1 |
| 5 | PULL IN DETECTOR MOUNTING BASE | * | * | BDTLP | FOR STAGE 2, 3 AND 4 TOTAL= 4 |
| 6 | ADDRESSABLE DOUBLE ACTION PULL STATION | * | * | SK-PULL-SA | MAIN HALL (2) REAR ENTRANCE (NEAR TOILET #1) PASSAGE (1) TOTAL= 3 |
| 7 | 4X1 OHM END OF LINE RESISTOR | * | * | SK-700S | NOTIFICATION APPLIANCE CIRCUIT 1 (NAC1) (1) NOTIFICATION APPLIANCE CIRCUIT 2 (NAC2) (1) TOTAL= 2 |
| 8 | WALL MOUNT HORN, HBL, HOOK/OUTDOOR | SYSTEM SENSOR | SPECTRAPOINT | HBL | OUTSIDE CORRIDOR (2) MAIN HALL (1) PASSAGE (1) TOTAL= 4 |
| 9 | WALL MOUNT HORN STROBE, HED, HOOK/OUTDOOR | * | * | P20HE | CORRIDOR (1) MAIN HALL (1) TOTAL= 2 |



| LEGEND | |
|---------|---------------|
| SYMBOLS | DESCRIPTION |
| | 4" DRAIN PIPE |
| | 3" DRAIN PIPE |
| | 2" DRAIN PIPE |

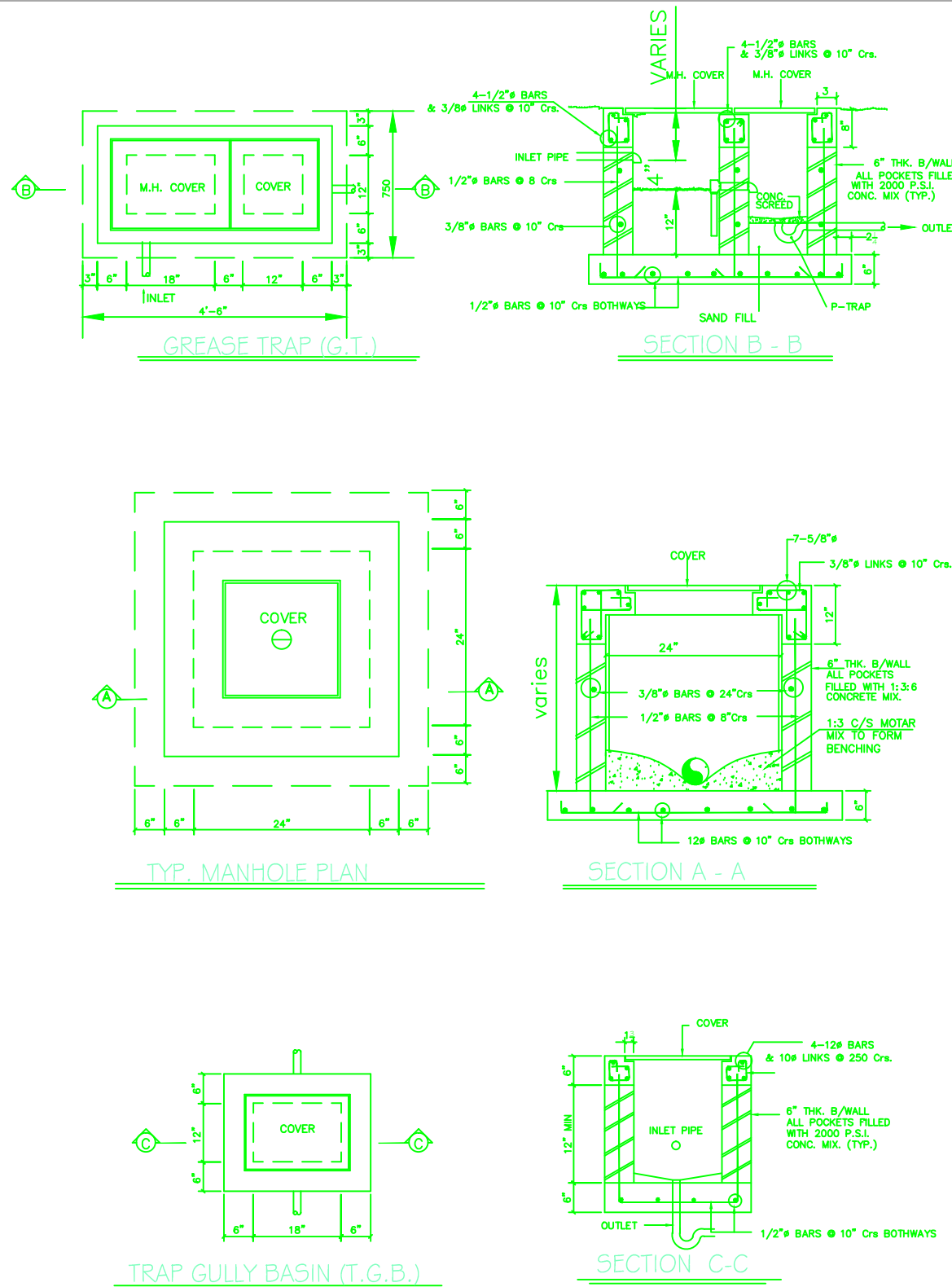
Plumbing General Note

Sewage System:

- As contract provision, drainage pipes from building is to be terminated at 12" away from external wall, and;
- drainage beyond and sewage system are to be variation depending on nature of site.
- Refer Site Plan for location of, direction and level of manholes
- manholes shall be at least 2'-0" away from building external wall.
- Sewage pipes shall be SCH40 and 18" minimum ground coverage on top of pipes.

General Pipe Works:

- Where the location of pipes is specified as being in a wall or beam, they shall be located in the center.
- Where the location of pipes is specified as being along structural reinforcement they shall be at least 1 1/2" away from surface of reinforcement.
- Where pipes cannot meet the above requirements, the method of placing must be determined by the Clerk of Works on site.
- all manholes, grease traps and trap gully basins to be placed 2' minimum away from foundation walls
- drain pipe for lavatory and shower is to be 2" dia
- drain pipe for toilet is to be 3" dia
- all external drainpipes connected to manholes to be 4" dia



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Revisions

| Rev | MM/DD/YY | Date | Description |
|-----|----------|------|-------------|
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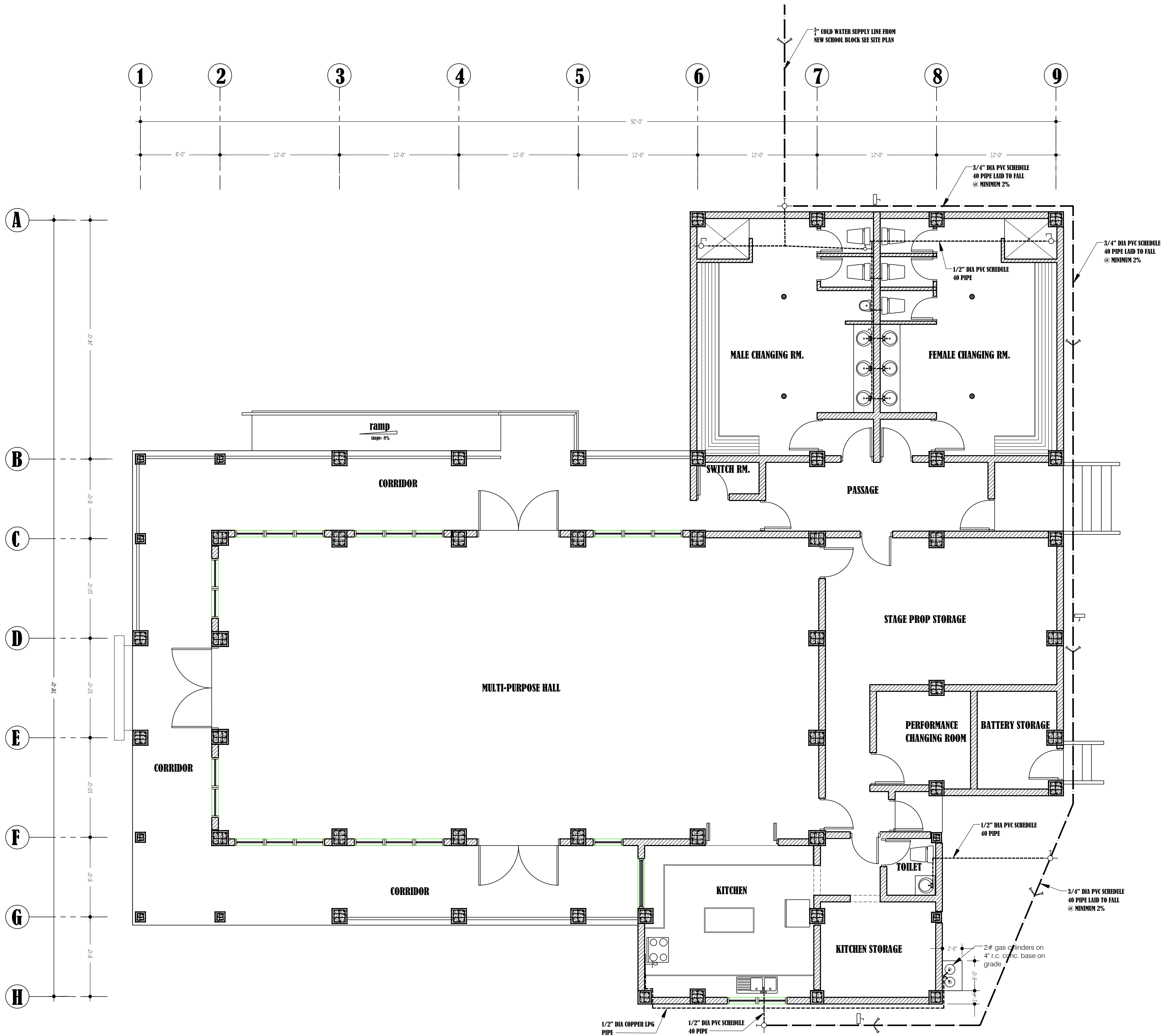
PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

Drainage Plan

| | |
|------------------------|-------|
| PROJECT NO. P.084 | |
| DATE 27/06/11 | |
| SCALE 3/16"=1'-0" | |
| DRAWN BY R.C. | P-01 |
| CHECKED BY R.C.H.S. | REV:- |



| LEGEND | |
|---------|---------------------------|
| SYMBOLS | DESCRIPTION |
| | 3/4\"/> |
| | 1/2\"/> |
| | 1/2\"/> |
| | SECONDARY SHUT OFF VALVE |
| | MAIN SHUT OFF VALVE |
| | EXTERNAL COLD WATER TAP |
| | GAS OUTLET |
| | SHOWER VALVE AND ASSEMBLY |

Plumbing General Note

- Potable Water Supply:
- Location of main water supply connection point shall be determined on site depending on location of Water Meter.
 - Water line between Water Meter and main water supply connection point shall be variation.
 - As contract provision, three set of external water supply with hose bib-cock at FSL+2'-0" on external wall shall be determined on site.

- Gas Supply:
- $\frac{1}{2}$ "Ø copper gas pipe at Gas Cylinder shall be FL+4'-0"high, and Gas Regulator (for double line) to be mounted on the wall above.

- General Pipe Works:
- Where the location of pipes is specified as being in a wall or beam, they shall be located in the center.
 - Where the location of pipes is specified as being along structural reinforcement they shall be at least 1 $\frac{1}{2}$ " away from surface of reinforcement.
 - Where pipes cannot meet the above requirements, the method of placing must be determined by the Clerk of Works on site.

PWD

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Revisions

| A | MM/DD/YY | ----- |
|---|----------|-------------|
| | Date | Description |

- General Notes
- This drawing is the exclusive property of the The Ministry of Communications & Works for Montserrat and the reproduction in whole or in part is prohibited without prior written consent.
 - The Contractor is to check and verify all levels datum and dimensions and report any discrepancy or omission to the Architect, prior to construction.
 - Drawings are not to be scaled
 - The Architect is not responsible for dimensions of the site plan unless they are taken directly from a registered boundary survey carried out by a Licensed Land Surveyor.
 - This drawing is to be read in conjunction with Structural, Mechanical, Electrical and/or other consultant's documentation that is applicable to the project.

PROJECT

Lookout Primary
School Extension
-Multi-purpose Hall

DRAWING

Water Supply & Gas
Plan

| | |
|----------------------|------|
| PROJECT NO. P.084 | P-02 |
| DATE 27/06/11 | |
| SCALE 3/16"=1'-0" | |
| DRAWN BY R.C. | |
| CHECKED BY RC,HS. | |

Water Supply and Gas Plan

3/16"=1'-0"