May 28, 2019

IDEA PUBLIC SCHOOLS
IDEA EDINBURG CAMPUS PHASE III

GOMEZ, MENDEZ, SAENZ, INC. 1150 PAREDES LINE RD. BROWNSVILLE, TEXAS 78526 (956) 546-0110

ADDENDUM NO. 1

A. PURPOSE AND INTENT

This addendum is issued for the purpose of modifying the plans and specifications for the Idea Public Schools – Edinburg Campus Phase III project.

This addendum shall become part of the contract and all CONTRACTORS shall be bound by its content. All aspects of the specification and drawings not covered herein shall remain the same.

The General Conditions and Special Conditions of the specifications shall govern all parts of the work and apply full force to this addendum.

B. <u>SCOPE</u>

CLARIFICATION

List Lockers is an approved equal.

SPECIFICATIONS

DIVISION 2 – SITE WORK

Delete 02930 – Lawns from specification book and replace with attached 02930 – Lawns (7 pages)

PLANS

L3.03 Landscape Schedules and Details

• Revised Soccer Field material quantities

Ethos Engineering Addendum No. 1 (13 Pages) dated May 24, 2019, will become part of this addendum.

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: The establishment of a complete and uniform lawn by sodding and/or hydromulching.
- B. Related Sections:
 - 1. Section 02810-Irrigation
 - 2. Section 02900-Planting

1.02 QUALIFICATIONS

A. Lawn work to be performed by a single firm specializing in commercial landscape work with a minimum of five (5) years experience on similar type projects. Owner/SSP Design to review qualifications and approve subcontractor prior to commencing work.

1.03 SUBMITTALS

- A. Submittals shall be formatted electronically in a pdf file with a table of contents and tabs identifying each section. The following submittals are required for this section:
 - 1. Product Data: Manufacturer's specifications and application instructions for fertilizer.
 - 2. Hydromulch mixes, percentages, lbs per acre, etc. for SSP review and approval before application.
 - 3. Samples: Topsoil, compost, silica sand for SSP review and approval before installation.
 - 4. Certificates: Inspection certificate from Texas Department of Agriculture indicating sod has been found free of diseases, insects and larvae.
 - 5. Certificates: Breakdown of seed types, percentages, and mixture composition.
 - 6. Sod Delivery Tickets: One per truckload indicating sod species, nursery certification, date and time of cutting.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Sod Delivery: Have sod delivered within forty-eight hours of cutting. Stack sod with roots to roots, protected from exposure to elements during shipment.
- B. Storage: Lay sod as soon a practicable after delivery. If installation is delayed more than four hours, store sod under shade and keep constantly moist. Sod must be laid within forty-eight hours of cutting. Do not pile more than two foot

depth of sod. Do not tear, stretch or drop sod. Do not allow soil to break free of turf roots.

1.05 PROJECT CONDITIONS

A. Utility Construction: Do not lay sod or begin hydro-mulching until all underlying utility work is complete, trenches backfilled, compacted and graded, and topsoil placed and fine graded and sports fields laser leveled and approved by Owner/SSP.

1.06 MAINTENANCE/WARRANTY

- A. Maintenance Service: Maintain the work of this Section throughout construction until the Date of Substantial Completion and ninety (90) days thereafter until a complete and uniform lawn has been established and accepted by the Owner / SSP.
- 1. Establish hydro-mulched or sodded lawns per planting plans. Reapply hydro-mulch or resod as necessary until **full and uniform** coverage is obtained.
- Mow general lawn areas <u>at least once per week</u> to maintain height of grass at 2 inches or as directed by Owner/SSP. Mowing of general lawn areas may be carried out using standard rotary type mowing equipment.
- 3. Mow Sports Fields <u>at least twice per week</u> to maintain an initial height of 2" for the establishment period then begin lowering the height over the next 90-days to achieve a final height of one inch. Mowing of Sports Field areas shall be carried out using reel type mowers only. Rotary mowers will not be accepted for Sports Field maintenance.
- 4. Trim/edge all lawn areas adjacent to watering basins, pavements, driveways, walls, structures, curbs, planting beds, edges and islands.
- 5. Provide insect and disease control to maintain health of grass.
- 6. Apply pre and post emergent herbicides as required or directed to control weed growth throughout the establishment and maintenance periods.
- 7. Fertilize general lawn areas (minimum two applications) with balanced commercial grade lawn fertilizer until complete and uniform coverage is obtained.
- 8. Fertilize Sports Field areas (minimum four applications) using a high nitrogen formula such as HJ 25-0-0 with Wolftrax or Scotts Sierrablen 27+5+5+Fe or Scotts Fairwaymaster 20+5+8 or approved equal.
 - Note: Submit fertilizer type for SSP review and approval prior to application. Depending on time of year, SSP may require a fertilizer that includes pre or post emergent herbicide.
- 9. Verti-cut or de-thatch Sports Field turf at least one time during the maintenance period.
- 10. Apply top dressing (clean inorganic sand) to level any divots, depressions or low spots during the maintenance period.
- 11. Irrigation:
 - a) If the irrigation system is operating, program and monitor the system to provide adequate water for grass.
 - b) If the irrigation system is not operating, hand water grass.
- 12. Submit receipts/dates of all maintenance operations to SSP Design for approval.

B. Warranty: Warranty shall cover all lawn grasses for a period of three months from the date of final acceptance. Final acceptance will not be approved until full and uniform lawns are completely established and proof of all fertilizations including receipts have been reviewed and accepted.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Topsoil: Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, taken from drained site; free of subsoil, clay or impurities, plants, weeds and roots; minimum pH value of 5.4 and maximum 7.0; organic matter to exceed 1.5%, magnesium to exceed 100 units; phosphorus to exceed 150 units; potassium to exceed 120 units; soluble salts/conductivity not to exceed 900 ppm/0.9 mmhos/cm in soil.
- B. Sand: For athletic/sports fields. Silica sand, clean, screened and free of debris. (Mathis Sand, Wright Materials Plant-3, Tel. (361) 387-0293 or approved equal).
- C. Sod: (See schedule for type). Provide premium #1 certified sod grown in a sod nursery on sandy soil, at least 1 yr. old with a heavy top and a strong, well-knit root system, and not more than five percent weeds or foreign grasses.
- D. Hydromulch Material. Material for hydraulic mulching shall consist of virgin wood fibers manufactured expressly from clean whole wood chips. The chips shall be processed in such a manner as to contain no growth or germination inhibiting factors. Fiber shall not be produced from recycled materials such as sawdust, paper, cardboard, or residue from pulp and pure plants. The wood cellulose fiber mulch shall be dyed green to aid in visual metering during application. The dye shall be biodegradable and not inhibit plant growth. The wood cellulose fibers of the mulch must maintain uniform suspension in water under agitation. Upon application, the moist material shall form a blotter-like mat covering the ground. This mat shall have the characteristics of moisture absorption, percolation, and shall cover and hold seed in contact with the soil. The Contractor shall obtain certifications from suppliers that laboratory, field-testing of their product has been accomplished, and that it meets all of the foregoing requirements pertaining to wood cellulose fiber mulch. Terra-Mulch Terra-Blend with UltraGro or approved equal.
- E. Fertilizer: Starter fertilizer (BCF 15-15-15) shall be used in hydro-mulch mix. The Contractor shall provide a Soil Analysis Report and shall use report to determine quantity and ratio of fertilizer for sustained growth of grass.

- F. Soil and Mulch Tackifier: Tackifier used with mulch shall be organic. Tackifier shall be mixed and applied with the hydromulch at an appropriate rate to stabilize soils and minimize erosion. Tackifier shall be pH stable with fertilizer and shall hydrate and disperse in mixing tank with water and other materials to form homogeneous slurry. Tackifier shall leave loose, chain-like stabilizing film on surface of soil, allow moisture to percolate into soil during seed germination and seedling growth, and break itself down through microbial action. Tackifier shall not inhibit plant germination or growth.
 - 1. Organic Tackifier. Organic tackifier shall be, starch-based tackifier formulated for use with conventional mulches. Active ingredient in tackifier shall be 100 percent derived from plant starch.
 - 2. Dry powder tackifier shall be blended with insolubilizer. After blending and mixing with water, tackifier shall swell, become sticky, and be suitable for use during heavy rain. Tackifier shall be applied at rate of 80 pounds per acre. Emulsion shall cure on surface of soil and become insoluble. Tackifier shall not inhibit plant germination or growth.
- G. Fertilizer: 12-4-8 (N-P-K), formulated for slow-release Nitrogen.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions: Examine the site and conditions under which this work is to be performed. Have the installer notify the Contractor in writing, with a copy to SSP Design, if the site is unsatisfactory. Do not begin the work until unsatisfactory conditions have been corrected in a manner acceptable to installer. Beginning of work indicates acceptance of the site as satisfactory by the installer.

3.02 PREPARATION

- A. Topsoil: Refer to Section 02900 'Landscaping' for topsoil amendment.
- B. Site Preparation: Contractors must visit and review site prior to bidding. Compacted soils and sub-soils from construction activities must be ripped and tilled until a loose, friable and free-draining condition is met. All existing weeds, grass, stabilized sub-base material, rubble, excavated soil and other material shall be removed from the site and disposed of by the contractor prior to starting any new landscape work. Soil conditions around entire site must be approved by SSP Design prior to rough and finished grading operations. Contractor shall not install any fill or topsoil in landscape areas prior to site condition approval by SSP Design.

3.03 INSTALLATION - HYDROMULCH

A. All exterior ground within the limit of contract or any other areas site areas disturbed by construction for egress, laydown areas, storage areas, staging areas, etc. shall be hydromulched or planted as shown on drawings. Furnish

topsoil, finish grading, hydromulch and maintain areas as indicated on the drawings.

- B. Lawn Area Preparations Grade areas to finish grades, filling as needed or removing surplus material. Float all lawn areas to a smooth, uniform grade as indicated on engineers grading plans. All lawn areas shall slope to drain away from structures and planting beds. Where no grades are shown, areas shall have a smooth and continual grade between existing or fixed controls (such as walks, curbs, catch basin, elevational steps or structures) and elevations shown on plans. Contractor to ensure proper drainage around all structures. Adjust grades as necessary to direct water away from structures and planting beds. Report any discrepancies on all drainage issues in writing to SSP Design or the project engineer.
- C. Roll, scarify, rake and level as necessary to obtain true, even lawn surfaces. All finish grades shall meet approval of the SSP, before seeding/hydromulching operations. Loosen soil to a depth of three inches (3") in lawn areas by approved method of scarification and grade to remove edges and depressions. Remove stones or foreign matter over one half inch (1/2") in diameter from the top two inches (2") of soil. Float lawn areas to finish grades as shown on civil plans.
- D. Lawn areas should be permitted to settle or should be firmed by rolling before seeding/hydromulching.
- E. Hydromulching shall not be performed in windy weather.
- F. Lawn areas shall be seeded by hydro-mulching evenly with an approved mechanical hydro-mulcher. Hydromulch mixture shall include a minimum of 3 lbs. seed, 45-50 lbs. of wood fiber mulch, 20 lbs. of fertilizer, and tackifier per 1000 sq. ft. Contractor shall add fresh annual rye grass seed if hydromulching between the months of November to April. In areas inaccessible to hydro-mulching equipment, the seeded ground shall be lightly raked with flexible rakes and rolled with a water ballast roller. After rolling, seeded areas are to be lightly mulched with wheat straw or approved erosion control material.
- G. Lawns shall be maintained by the Contractor for at least 90 days after substantial completion or as long as necessary to establish a uniform stand of the specified grasses, or until final acceptance of lawns, whichever is later.
- H. Water seeded/hydromulched areas twice the first week to a minimum depth of six inches (6") with a fine spray and once per week thereafter as necessary to supplement natural rain to the equivalent of one inch (1") or to a six-inch (6") depth.
- I. The surface layer of soil for seeded/hydromulched areas must be kept moist during the germination period. After first cutting, water as specified above.
- J. Make weekly inspections to determine the moisture content of the soil and adjust the watering schedule established by the irrigation system installer to fit conditions

- K. After grass growth has started, all areas or parts of areas, which fail to show a uniform stand of grass for any reason whatsoever shall be reseeded/hydromulched in accordance with the plans and as specified herein. Such areas and parts of areas shall be reseeded, hydromulched or sodded repeatedly until all area are covered with a satisfactory growth of grass at no additional cost to the Owner.
- L. Watering shall be done in such a manner and as frequently as is deemed necessary by SSP to assure continued growth of healthy grass. All areas of the site shall be watered in such a way as to prevent erosion due to excessive quantities applied over small areas and to avoid damage to the finished surface due to the watering equipment.
- M. Water for the execution and maintenance of this work shall be provided by the Owner at no expense to the Contractor. The Contractor shall, however, furnish his own portable tanks, pumps, hose, pipe, connections, nozzles, and any other equipment required to transport the water from the available outlets and apply it to the seeded area in an approved manner.
- N. Mowing of the seeded, hydromulched or sodded areas shall be initiated when the grass has attained a height of one and one-half to two inches (1-1/2" to 2"). Grass height shall be maintained between one and one and one-half inches (1' to 1½") at subsequent cutting depending on the time of year. Not more than one third (1/3) of the grass leaf shall be removed at any cutting and cutting shall not occur more than seven (7) days apart. Mowing of these general site areas can be completed using a rotary type mower. Sports and athletic fields shall be mowed at a height of one inch (1") and may require mowing more than once per week during the growing season and must be accomplished utilizing a reel type mower. Rotary mowers will not be accepted for cutting grass on sports and athletic fields.
- O. When the amount of grass is heavy, it shall be removed to prevent destruction of the underlying turf. If weeds or other undesirable vegetation threaten to smother the planted species, such vegetation shall be mowed or, in the case of rank growths, shall be uprooted, raked and removed from the area by methods approved by the SSP.
- P. Protect seeded/hydromulched areas against trespassing while the grass is germinating. Furnish and install fences, signs, barriers or any other necessary temporary protective devices. Damage resulting from trespass, erosion, washout, settlement or other causes shall be repaired by the Contractor at their expense.
- Q. Remove all fences, signs, barriers or other temporary protective devices after final acceptable.

3.04 INSTALLATION - SOD

A. Sod shall be installed to all areas as indicated on plans.

- B. Sod Bed Preparation Grade areas to finish grade, filling as needed or removing surplus dirt, stone, debris, etc. and floating areas to a smooth, uniform grade as indicated on grading plans. All lawn areas are to slope to drain.
- C. Sod shall be laid within 24 hrs of being cut. Only healthy vigorous growing sod is to be laid.
- D. Always lay sod across slope and tightly together so as to make a solid area.
- E. Roll all new sod with a 1 ton mechanical vibratory roller sufficiently to set or press sod into underlying soil and to level all seams and joints.
- F. Contractor to fill any gaps or seams in the sodded areas using clean top dressing sand.
- G. After sodding has been completed, clean up and thoroughly moisten by sprinkler newly sodded areas.

3.05 FERTILIZING - GRASS

- A. General lawn areas shall have fertilizer applied in two (2) applications with a thorough watering immediately following each application. The first application shall be one (1) week after the hydro-seeding using a 'starter fertilizer' at manufacturer's recommended rates. The second application shall be done after 30-60 days with an approved turf builder fertilizer at manufacturer's recommended rates and as approved by SSP.
- B. Sports Field areas shall have a minimum of four (4) applications with a thorough watering immediately following each application. The first application shall be one (1) week after the hydro-seeding using a 'starter fertilizer' at manufacturer's recommended rates. Subsequent applications shall be done after 30 days, 60 days and 90 days with a balanced or higher nitrogen fertilizer at manufacturer's recommended rates and as approved by SSP.
- C. Soil analysis and time of year shall be considered with SSP to determine fertilizer type, composition and final application rates. Submit fertilizer type and analysis to SSP for approval before any application. Document fertilizer application with photos and receipts of fertilizer purchases.

3.06 CLEANUP AND PROTECTION

- A. Remove debris from landscaped areas daily and sweep clean adjacent pavements, if soiled by landscape activities.
- B. Protect lawns from damage, theft or vandalism until final acceptance. Install stakes and flagging or temporary fencing if required to keep traffic off newly established lawn areas until final acceptance.

END OF SECTION



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May 24, 2019 IDEA – Edinburg College Prep Phase III

ADDENDUM NO. 1

A. PURPOSE AND INTENT

This addendum is issued for the purpose of modifying the plans and specifications for the project referenced above.

This addendum shall become part of the contract and all contractors shall be bound by its content. All aspects of the specifications and drawings not covered herein shall remain the same.

The General Conditions and the Special Conditions of the specifications shall govern all parts of the work and apply in full force to this addendum.

B. SCOPE

I. Specifications:

- 1) Section 237413.2 Packaged, Outdoor, Central-Station Large AHUS:
 - a) 2.1 Manufactures: Add Greenheck to the manufactures list. It shall meet or exceed the performance and specifications.
- 2) Section 267210 Fire Alarm System:
 - a) 2.6 Notification Appliances: Provide wire guard protective covers for all gymnasium devices.

II. Drawings:

- 1) Sheet MEP1.01:
 - a) Revised MEP Site Plan. See attached sheet.
- 2) Sheet M3.01:
 - a) Revised Mechanical Plan. See attached sheet.
- 3) Sheet M4.01:

- a) Revised Mechanical Elevations. See attached sheet.
- 4) Sheet E2.01:
 - a) Revised Electrical Scope of Work and Symbols Legend. See attached sheet.
- 5) Sheet E3.01:
 - a) Revised Lighting Plan. See attached sheet.
- 6) Sheet E4.01:
 - a) Revised Luminaire Schedule. See attached sheet.
- 7) Sheet E5.01:
 - a) Revised Electrical Riser Diagram and Schedules. See attached sheet.
- 8) Sheet E6.01:
 - a) Revised and Added Electrical Details. See attached sheet.
- 9) Sheet P2.01:
 - a) Revised Plumbing Plan. See attached sheet.
- 10) Sheet P3.01:
 - a) Revised Waste & Vent Plan. See attached sheet.
- 11) Sheet P5.01:
 - a) Revised Plumbing Schedule. See attached sheet.





MAINTAIN A MINIMUM OF 24" HORIZONTALLY BETWEEN ELECTRICAL

OR 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND WATER

PRIMARY AND SEWER. MAINTAIN A MINIMUM OF 12" VERTICALLY

LINES, GAS LINES, TELEPHONE RACEWAYS AND CABLE RACEWAYS.

ELECTRICAL

TRENCHING DETAIL

6" SAND

ELECTRICAL FEEDER CIRCUITS &-

POLYMER CONCRETE

PULLBOX DETAIL

SPECIAL SYSTEMS RACEWAYS

BURIAL DETAIL FOR

ELECTRICAL RACEWAYS

GENERAL NOTES:

- 1. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.
- 2. FIELD VERIFY PROJECT SITE EXISTING CONDITIONS AND ELEVATIONS PRIOR TO BEGINNING
- ANY WORK. 3. COORDINATE ELECTRICAL AND PLUMBING WITH GENERAL CONSTRUCTION.
- 4. PHASING AND SEQUENCE OF CONSTRUCTION SHALL BE PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- 5. FIELD VERIFY/SPOT EXACT LOCATIONS AND EXISTING CONDITIONS OF EXISTING PLUMBING, AND ELECTRICAL. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND WORKABLE SYSTEMS. SHOULD BIDDER FIND OMISSIONS OR DISCREPANCIES IN THE PLANS, BIDDER SHALL NOTIFY THE ENGINEER PRIOR TO THE BID DATE AND A WRITTEN
- 6. DAMAGED ITEMS SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER. CONTRACTORS ARE REQUIRED TO SEARCH AND INVESTIGATE FOR EXISTING UTILITIES BEFORE EXCAVATING.
- 7. ALL MATERIALS AND LABOR, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT, WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION OF THE SYSTEM SHALL BE FURNISHED BY THIS CONTRACTOR. INCLUDE ALL COSTS OF CHANGES, IF/AS REQUIRED IN BID PROPOSAL.
- 8. PROVIDE J-BOXES (POLYMER CONCRETE) AS REQUIRED FOR PULL WIRING.
- 9. ELECTRICAL WIRING SHALL NOT BE SPLICED BELOW GRADE.

CLARIFICATION WILL BE ISSUED.

- 10. PERFORM ALL WORK PER LATEST VERSION OF NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES AND ORDINANCES, UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS.
- 11. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.
- 12. CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED
- 13. NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.
- 14. COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
- 15. SEAL AROUND ELECTRICAL RACEWAYS AT ALL WALLS, A/C ROOMS AND WALL LOUVER PENETRATIONS WITH FIREPROOF CAULKING. RE: SPECS. PROVIDE FLASHING AROUND

PENETRATION, BOTH INSIDE AND OUTSIDE, TO PROVIDE FINISHED LOOK.

- 16. TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING PHASE.
- 17. CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, WORK BY OTHERS, AND ELECTRICAL
- WORK ASSOCIATED WITH OTHER DISCIPLINES.
- 19. AFFIX ID TAGS TO ALL DIVISION 26 EQUIPMENT.
- 20. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MECHANICAL AND PLUMBING CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.

18. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.

- 21. FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
- 22. ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY THEIR CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.
- 23. EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
- 24. WORK TO BE DONE UNDER ALLOWANCES BECOMES AN INTEGRAL PART OF THE PROJECT AND RESPONSIBILITY OF CONTRACTOR ONCE ALLOWANCE IS APPROVED.
- 25. SLEEVE ALL EXTERIOR WALL PENETRATIONS.
- 26. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S APPROVAL IN WRITING. UNLESS ENGINEER HAS AGREED TO SUCH CHANGE PRIOR TO IT BEING DONE, AND HAS AGREED THAT AN INCREASE IN COST ASSOCIATED WITH SUCH CHANGE IS WARRANTED; CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.

ELECTRICAL KEYED NOTES:

- 1 EXISTING MAGIC VALLEY COOP ELECTRIC 30 UNDERGROUND SERVICE LINES.
- 2 EXISTING MAGIC VALLEY COOP SECTIONALIZER.
- 3 PROVIDE UNDERGROUND PRIMARY FLECTRIC RACEWAYS. CONDUCTORS BY MAGIC VALLEY COOP. 4 NEW SECTIONALIZER BY MAGIC VALLEY COOP.
- 5 PROVIDE PAD MOUNT TRANSFORMER CONCRETE PAD.
- 6 PROVIDE UNDERGROUND SECONDARY ELECTRIC LINE, METER AND MAIN SWITCH DISCONNECT. 7 PROVIDE NEW FEEDER TO NEW PANELBOARD.
- | 8 | CONNECT ELECTRIC DRIVE UNIT (208V, 10); BRANCH CIRCUIT: 2" 2#4 & #8G. PROVIDE 3/4" X 10' COPPER CLAD GROUND ROD WITHIN 3'-0" OF GATE OPERATOR. COORDINATE EXACT LOCATION OF COMPONENTS WITH ARCHITECT PRIOR TO ANY ROUGH-IN. GATE CONTRACTOR SHALL PROVIDE ALL INTERNAL WIRING INCLUDING SAFETY LOOPS & PHOTO EYES. SEE DETAIL ON SHEET E6.02. PROVIDE A NEW 20A/2P IN EXISTING PANELBOARD FOR EACH.
- 9 ACCESS CONTROL PEDESTAL AND VIDEO DOOR STATION. SEE DETAIL ON SHEET E9.03.
- 10 PROVIDE POLE LIGHTS AS SCHEDULED TYPICAL. SEE DETAIL.
- | 11 | SWITCH EXTERIOR POLE LIGHTS THROUGH TIME CLOCK. BRANCH CIRCUIT: 1" 2#8 & #10G. PROVIDE A NEW 20A/2P BREAKER IN EXISTING PANELBOARD.
- 12 APPROXIMATE LOCATION OF EXISTING DATA RACK.
- 13 APPROXIMATE LOCATION OF EXISTING PANELBOARDS: 'HA' - 277/480V, 3ø, 4W, 800A, SIEMENS. PROVIDE 365-DAY, ASTRONOMICAL, 2-CHANNEL, PROGRAMMABLE TIME CLOCK ADJACENT TO PANEL TO CONTROL NEW PARKING LOT LIGHTING. 'LA' - 120/208V, 3%%, 4W, 225A, SIEMENS.
- 14 BORE UNDER EXISTING DRIVEWAY.
- 15 RACEWAYS TO RISE AT DATA RACK.
- 16 PROVIDE THE FOLLOWING: 1-2" RACEWAY WITH PULLWIRE - (INTERCOM) 1-2" RACEWAY WITH PULLWIRE - (SPARE) 1-4" RACEWAY WITH PULLWIRE - (DATA)
- 17 PROVIDE ABOVE ACCESSIBLE CEILING SPACE. PROVIDE ABOVE ACCESSIBLE CEILING SPACE.
- 18 APPROXIMATE LOCATION OF EXISTING CARE HAWK CH100 INTERCOM CARD CAGE.
- 19 PROVIDE NEW 12"X12" TIER 22 RATED POLYMER CONCRETE PULL BOX WITH "ELECTRICAL" COVER LOGO - SEE DETAIL.
- 20 PROVIDE NEW 24"X24" TIER 22 RATED POLYMER CONCRETE PULL BOX WITH "COMMUNICATIONS" COVER LOGO - SEE DETAIL.
- 21 PROVIDE 1-2" RACEWAY WITH PULLWIRE AND FIBER OPTIC CABLE FOR NETWORKING
- EXISTING NOTIFIER NFS-320 CONTROL PANELS.
- 22 APPROXIMATE LOCATION OF EXISTING NOTIFIER NFS-320 CONTROL PANEL.
- APPROXIMATE LOCATION OF EXISTING REMOTE ANNUNCIATOR TO BE REPLACED. PROVIDE A NEW NETWORKABLE ANNUNCIATOR.



SIZED TO SERVE THE FUTURE BUILDING EXPANSION. PROVIDE HEADERS,

VALVES, BRANCHES, ETC. AS NECESSARY TO ACCOMMODATE FUTURE

ADDITION. COORDINATE WITH A/E TEAM DURING SHOP DRAWING

SUBMITTAL PHASE.

FIRE RISER RISER

ENTRANCE DETAIL





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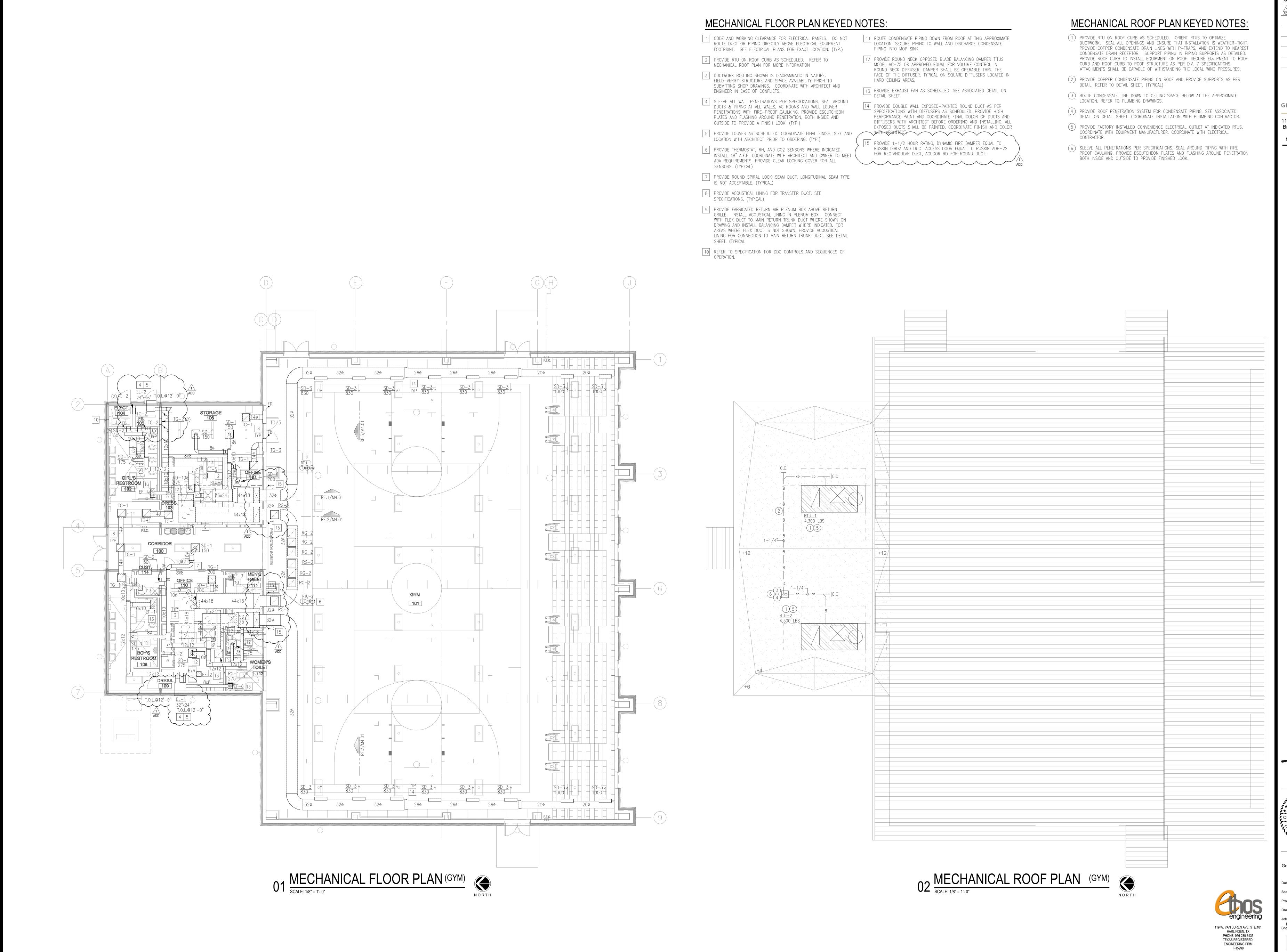
May 03, 2019 Roan G Gomez, AIA IDEA EDINBURG PHASE I

MEP1.01

GMS ARCHITECT 1150 Paredes Line Rd Brownsville TX 78526 (956) 546-0110 fax (956) 546-0196

MAY 24, 2019





1150 Paredes Line Rd. Brownsville TX 78526 (956) 546-0110 fax (956) 546-0196

| REVISIONS | BY

MAY 24, 2019

IDEA-EDINBURG COLLEGE PREP PHASE

CESAR A. GONZALEZ

108611

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5.03.2019

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Gomez Mendez Saenz Inc.
Architects-Planners

Date:
May 03, 2019
Scale:
As Noted
Project Architect:
Roan G Gomez, AIA
Drawn By:
ETHOS
Job No.
IDEA EDINBURG PHASE III
Sheet:

IDEA EDINBURG PHASE Sheet:

CESAR A. GONZALEZ

108611

CENER

5.03.2019

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Architects-Planners

IDEA EDINBURG PHASE II

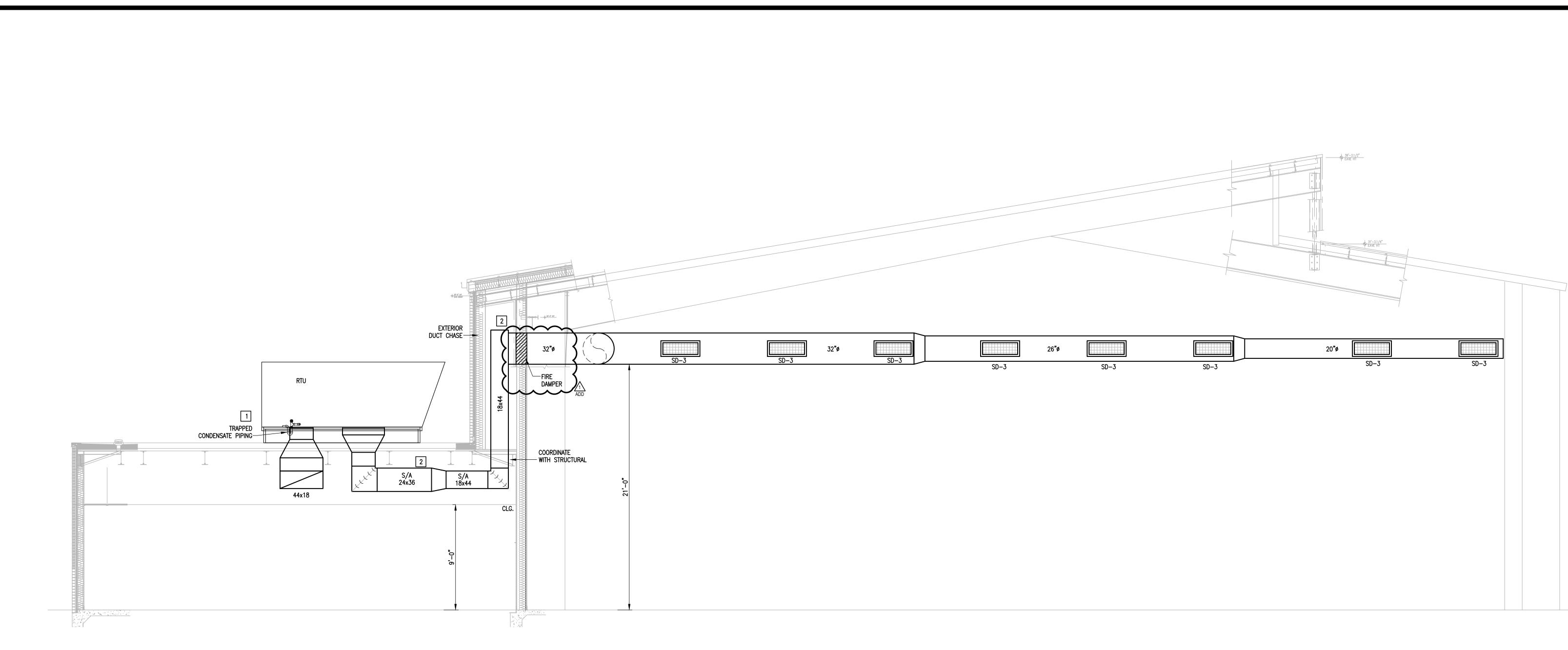
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MAY 24, 2019

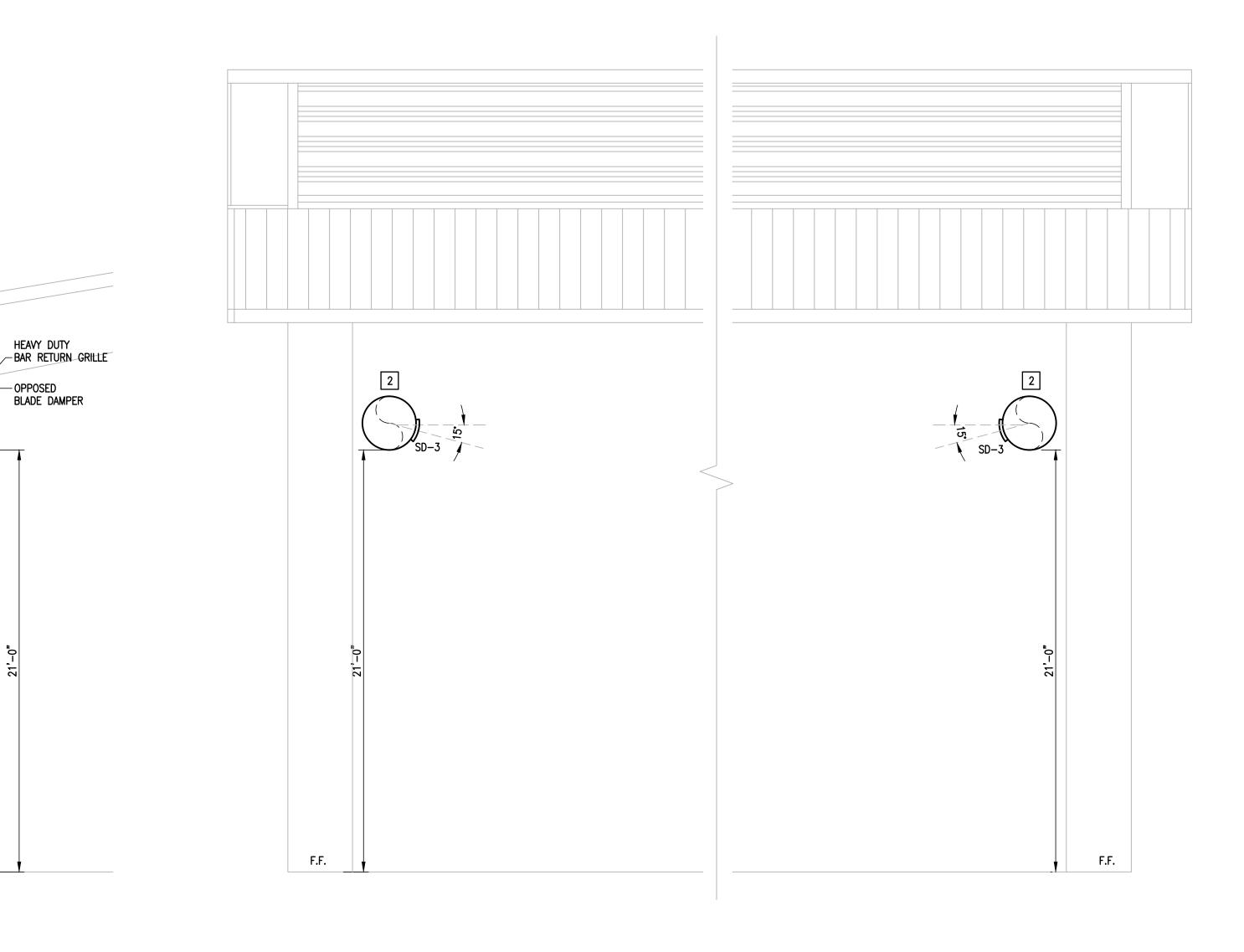
GMS ARCHITECT

1150 Paredes Line Rd. Brownsville TX 78526

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01 MECHANICAL ELEVATION SCALE: 1/4" = 1'- 0"



KEYED NOTES:

- SYMBOL IS DIAGRAMMATIC. COORDINATE CONDENSATE TRAP SIZE AND DEPTH WITH AHU SUPPLIER. PROVIDE INSULATED COPPER CONDENSATE DRAIN LINE ON UNISTRUT SLEEPERS, AND ROUTE LINE TO DRAIN RECEPTOR. PROVIDE INSULATION. PROVIDE COPPER TUBING FROM AIR VENT DISCHARGE TO DRAIN.
- DUCTWORK ROUTING SHOWN IS DIAGRAMMATIC IN NATURE. FIELD-VERIFY STRUCTURE AND SPACE AVAILABILITY PRIOR TO SUBMITTING SHOP DRAWINGS. COORDINATE WITH ARCHITECT AND ENGINEER IN CASE OF CONFLICTS. (TYPICAL)



TRAPPED CONDENSATE PIPING

EXTERIOR DUCT CHASE

COORDINATE

WITH STRUCTURAL

2. ELECTRICAL: PROVIDE ALL MATERIALS AND LABOR ASSOCIATED WITH COMPLETE OPERATIONAL ELECTRICAL DISTRIBUTION SYSTEM. MAJOR ITEMS OF WORK INCLUDE, BUT ARE NOT LIMITED TO:

- (a) ELECTRICAL SERVICE:
- (i) PROVIDE A NEW UNDERGROUND ELECTRICAL SERVICE; IT SHALL CONSIST OF UNDERGROUND ELECTRICAL RACEWAYS AND CONCRETE PAD FOR UTILITY FURNISHED TRANSFORMER.
- (ii) UTILITY COMPANY SHALL PROVIDE MEDIUM VOLTAGE CONDUCTORS AND PAD TRANSFORMER. (iii) SINGLE PHASE PROTECTION: PROVIDE AS NOTED ON SWITCHBOARD AND PANELS SCHEDULES.
- (b) LIGHTING SYSTEMS: INTERIOR AND EXTERIOR LIGHTING SYSTEM SHALL CONSIST OF LED TYPE.
- (c) LIGHTING CONTROLS (SWITCHES, VACANCY SENSORS, ETC.): PROVIDE AS NOTED ON PLANS SPECIFICATIONS. IN SOME CASES, THEY WILL BE CEILING MOUNTED AND OTHERS WALL MOUNTED. IT'S THE INTENT FOR THEM TO BE WIRED TO AUTOMATICALLY CONTROL THE LUMINARIES IN THEIR RESPECTIVE AREAS.
- (d) COMMISSIONING: PROVIDE FOR THE LIGHTING EQUIPMENT AND LIGHTING CONTROLS AS REQUIRED PER
- (e) POWER SYSTEMS: PROVIDE MISCELLANEOUS DUPLEX RECEPTACLES, CONNECTIONS, AND POWER FOR H.V.A.C. AND PLUMBING EQUIPMENT.
- (f) FIRE ALARM SYSTEM: PROVIDE AN ADDRESSABLE CONTROL PANEL WITH VOICE EVACUATION, CELL/WIRELESS MONITORING, MANUAL AND AUTOMATIC INITIATION DEVICES. MONITORING AND INTERFACING WITH FIRE SPRINKLE TAMPER AND FLOW SWITCHES. INDICATING DEVICES SHALL ALSO BE PROVIDED TO COMPLY WITH TDLR. NEW BUILDING SHALL BE INTERFACED WITH EXISTING HIGH
- (g) COMMUNICATION AND DATA PROCESSING EQUIPMENT: PROVIDE CABLING, CONNECTORS, PATCH PANELS,
- (h) MULTIMEDIA SYSTEM: PROVIDE MULTIMEDIA OUTLET FOR PROJECTORS INCLUDING CONNECTORS, CABLING AND OUTLETS.
- (i) SCHOOL INTERCOM SYSTEM: EXPAND AS REQUIRED EXISTING CONTROL PANEL TO ACCOMMODATE NEW BUILDING SPEAKERS AND CALL—IN SWITCHES THROUGHOUT. HALLWAYS AND BUILDING EXTERIOR WALLS WITH SPEAKERS TO TRANSMIT GENERAL ANNOUNCEMENTS.
- (j) GYMNASIUM SOUND SYSTEM: SPEAKER, MICROPHONE OUTLETS, MICROPHONE, MICROPHONE STANDS, AND WIRING. SEE SPECIFICATIONS.
- (k) INTRUSION DETECTION SYSTEM: IT SHALL CONSIST OF A CONTROL PANEL WITH WIRELESS/RADIO MONITORING, KEYPADS, GLASS BREAK SENSORS, MOTION DETECTORS AND MAGNETIC CONTACTS AS
- (I) BUILDING ACCESS: PROVIDE POWER TO VEHICLE GATES, INTERCOM AND CAMERA AT VEHICLE GATES

ABBREVIATIONS:

				W	WIRE
EDH	ELECTRIC DUCT HEATER	INT.	INTRUSION DETECTION	WACU	WALL AIR CONDITIONING UNI
DISC.	DISCONNECT	IG	ISOLATED GROUND	VFD	VARIABLE FREQUENCY DRIVE
DDC	DIRECT DIGITAL CONTROLS		& AIR CUNDITIONING	٧	VOLTS
CU.	COPPER	HVAC	HEATING, VENTILATION, & AIR CONDITIONING	UNO	UNLESS OTHERWISE NOTED
COND.	CONDUIT	HP	HORSEPOWER	UG	UNDERGROUND
сомв.	COMBINATION	GRND.	GROUND	TSTAT	THERMOSTAT
CLG.	CEILING	GALV.	GALVANIZED	SS	STAINLESS STEEL
C.	CONDUIT OR COMMON	GA.	GAGE	RM.	ROOM
BLC.	BELOW CEILING LINE	G.	GROUND	PH	PHASE
B.	ВОТТОМ	FS	FLAT SCREEN	PA	PUBLIC ADDRESS
AFF	ABOVE FINISHED FLOOR	FD	FIRE DAMPER	Р	POLE(S)
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT	OAU	OUTSIDE AIR UNIT
ACCU	AIR COOLED CONDENSING UNIT	FACP	FIRE ALARM CONTROL PANEL	OA	OUTSIDE AIR
AC	ABOVE COUNTER BACKSPLASH	EXT.	EXTERNAL OR EXTERIOR	NTS	NOT TO SCALE
ABC	ABOVE CEILING LINE	EMS	ENERGY MANAGEMENT SYSTEM	MS	MOTOR STARTER
Α	AMPS	EF	EXHAUST FAN	MECH	MECHANICAL

GENERAL SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
ㅁ	DISCONNECT SWITCH — NON FUSED	AS REQUIRED
ď	DISCONNECT SWITCH — FUSED	AS REQUIRED
0	EQUIPMENT CONNECTION	AS REQUIRED
0	MOTOR CONNECTION	AS REQUIRED
	ELECTRICAL PANELBOARD — SURFACE MOUNTED	AS REQUIRED
	UNDERGROUND RACEWAY	AS REQUIRED
	CONCEALED RACEWAY	AS REQUIRED
And the second	CONDUIT OR EMT HOMERUN TO PANELBOARD CONCEALED IN WALLS OR ABOVE CEILING. LONG CROSSMARKS DENOTE NUMBER OF "HOT" CONDUCTORS SHORT CROSSMARKS INDICATE NEUTRALS AND DOTS INDICATE NUMBER OF GROUND CONDUCTORS. ARROW INDICATES HOME RUN TO ELECTRICAL PANEL.	AS REQUIRED
SPD	SURGE PROTECTION DEVICE	

LUTRON CONTROL SYMBOLS:

P 3 _{RL}	DIMMING WALLSTATION - LUTRON PX-2BRL-GWH-I01	48"AFF
Q 3 _{PL}	WALLSTATION - LUTRON QSWS2-3BRLI-WH	48"AFF
Q 5 _{RL}	WALLSTATION - LUTRON QSWS2-5BRLI-WH	48"AFF
	OCCUPANCY SENSOR - LUTRON LOS-CDT-2000-WH	CLG.
	OCCUPANCY SENSOR - LUTRON LUT-WSPSM24V-360-CPN6111	CLG.
TC	TIME CLOCK - LUTRON QSGR-TC-3S-WH-CPN5825	
ESN	CONTROLLER INTERFACE — LUTRON QSE—CI—AP—D	ABV. CLG.
ESN	ENERGI SAVR NODE - LUTRON QSN-4T16-S	AS REQUIRED
≣ SN	WIRELESS SENSOR MODULE - LUTRON QSM2-4W-C	CLG.
os pir 6S	OCCUPANCY WALL SENSOR SWITCH LUTRON MS-OPS6M2-DV-WH	48"AFF
KIT	KIT - LUTRON C-ESN-SETUP	AS REQUIRED
P 2	PICO WIRED WALL SWITCH - LUTRON PX-2B-GXX-I01	48" AFF

48" AFF INDICATES TO TOP OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE. REFERENCE LIGHTING CONTROL SCHEMATIC DETAILS FOR ALL LUTRON CONTROLS WIRING REQUIREMENTS.

DOOR ACCESS SYSTEMS SYMBOL LEGEND:

DOOR POWER SUPPLY - CONNECT TO NEAREST 120V NON-GFCI CIRCUIT.	12" ABC
CONNECT DOOR ELECTRIC STRIKE - PROVIDE BACK BOX WITH 1/2" RACEWAY STUBBED TO POWER SUPPLY ABOVE ACCESSIBLE CLG.	12" ABC
CONNECT DOOR RELEASE BUTTON — BOSCH MODEL #47107). PROVIDE BACK BOX WITH 1/2" RACEWAY STUBBED TO POWER SUPPLY ABOVE ACCESSIBLE CLG.	48"AFF
CONNECT SLIDE GATE AUDIO/MASTER MASTER STATION — PROVIDE BACK BOX WITH 1/2" RACEWAY STUBBED INTO ACCESSIBLE CLG. SEE DETAIL	4" ACB
_	STUBBED TO POWER SUPPLY ABOVE ACCESSIBLE CLG. CONNECT DOOR RELEASE BUTTON — BOSCH MODEL #47107). PROVIDE BACK BOX WITH 1/2" RACEWAY STUBBED TO POWER SUPPLY ABOVE ACCESSIBLE CLG. CONNECT SLIDE GATE AUDIO/MASTER MASTER STATION — PROVIDE BACK BOX WITH

1.) 48" AFF INDICATES TO TOP OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE. REFER TO DOOR ACCESS SYSTEM DETAIL.

LIGHTING SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	2'X4' LIGHT FIXTURE — TYPE AS NOTED	
	EMERGENCY 2'X4' LIGHT FIXTURE—TYPE AS NOTED CONNECT BATTERY PACK TO BE ON AT ALL TIMES (UNSWITCHED)	
6	SURFACE/WRAPAROUND LIGHT FIXTURE	
[O	SURFACE/WRAPAROUND EMERGENCY LIGHT FIXTURE CONNECT BATTERY PACK TO BE ON AT ALL TIMES (UNSWITCHED)	
<u>⊗</u> 🍳	SINGLE FACE EXIT SIGN CEILING OR WALL MOUNTING (DIRECTIONAL ARROWS WHERE INDICATED)	12" ABV. EGRESS OPENING
**	DOUBLE FACE EXIT SIGN CEILING OR WALL MOUNTING (DIRECTIONAL ARROWS WHERE INDICATED)	12" ABV. EGRESS OPENING
환	EMERGENCY LIGHTING UNIT	8'-0"AFF
Q	WALL MOUNT LIGHT FIXTURE — TYPE AS NOTED	
NOTES:		

1.) REFERENCE LIGHT FIXTURE SCHEDULE FOR ALL MOUNTING HEIGHTS.

WIRING DEVICES SYMBOL LEGEND:

• • • • • • • • • • • • • • • • • • • •		
SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
S	SINGLE POLE TOGGLE SWITCH — HUBBELL MODEL #HBL1221X	48"AFF
S ₃	THREE WAY TOGGLE SWITCH — HUBBELL MODEL #HBL1223X	48"AFF
S ₄	FOUR WAY TOGGLE SWITCH - HUBBELL MODEL #HBL1224X	48"AFF
S _K	KEYED TOGGLE SWITCH CORBIN TYPE - HUBBELL MODEL #HBL1221RKLX	48"AFF
S _{VS}	VACANCY DIMMING WALL SENSOR SWITCH — LUTRON MODEL #MS-Z101-V-WH. PROVIDE 0-10V SIGNAL WIRE IN RACEWAY FROM SWITCH TO EACH CONTROLLED LIGHT FIXTURE.	48"AFF
S _{2ab}	2-BUTTON CONTROL STATION - LUTRON MODEL #QSWS2-2BI-WH	48"AFF
S _T	1P TOGGLE SWITCH-THERMAL TYPE - SQUARE "D" CLASS 2510 W/ RED PILOT LIGHT & HANDLE GUARD/LOCK OFF	AS REQUIRED
S _{DS}	DIGITAL SWITCH — ACUITY MODEL #CH1 X X PWH	48"AFF
S _{EF}	EXHAUST FAN TIMER SWITCH — SENSOR SWITCH MODEL #PTS 720 X	48"AFF
PC	DIGITAL OUTDOOR PHOTO CELL WALL MOUNTED — LC&D SEE DETAIL	12' AFF
(S) _s	STANDARD RANGE LOW VOLTAGE DUAL TECH CEILING VACANCY SENSOR — LUTRON MODEL #LOS—CDT—500—WH. PROVIDE A POWER PACK — LUTRON MODEL #PP—DV	CLG.
W S _E	EXTENDED RANGE LOW VOLTAGE DUAL TECH CEILING VACANCY SENSOR — LUTRON MODEL #LOS—CDT—1000—WH. PROVIDE A POWER PACK — LUTRON MODEL #PP—DV	CLG.
⊗ H	HIGH BAY LOW VOLTAGE DUAL TECH CEILING VACANCY SENSOR — LUTRON MODEL #LOS-WSPSM24V-360-CPN611. PROVIDE A POWER PACK — LUTRON MODEL #PP-DV	CLG.
P	POWER PACK FOR EXISTING FAN — LUTRON MODEL #PP-DV. INTERFACE WITH ROOM OCCUPANCY SENSOR.	ABV. CLG.

1.) 48" AFF INDICATES TO TOP OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

WIRING DEVICES SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
•	DUPLEX TAMPER RESISTANT RECEPTACLE — HUBBELL MODEL #BR20XTR	18"AFF
⊖ GFCI	DUPLEX RECEPTACLE TAMPER RESISTANT W/ GROUND FAULT INTERRUPTING TYPE — HUBBELL MODEL #CGFTRST20X	18"AFF
⊖ GFCI WICP	DUPLEX RECEPTACLE TAMPER RESISTANT W/ GROUND FAULT INTERRUPTING TYPE — HUBBELL MODEL #GFTWRST20X AND WHILE IN USE WEATHERPROOF COVER — PASS & SEYMOUR MODEL #WP26EH	18"AFF
○ AC	DUPLEX RECEPTACLE TAMPER RESISTANT — HUBBELL MODEL #8300XTR MOUNT @ +4" HORIZONTALLY ABOVE COUNTER BACKSPLASH (U.N.O.)	4"ACB
○ FS	DUPLEX RECEPTACLE FOR FLAT SCREEN — HUBBELL MODEL #CR5352X	84"AFF
©	SPECIAL RECEPTACLE — TYPE AS NOTED	18"AFF
Ю	JUNCTION BOX W/ BLANK STAINLESS STEEL COVERPLATE	AS REQUIRED
O USB	DUPLEX TAMPER RESISTANT RECEPTACLE AND USB RECEPTACLE COMBINATION — HUBBELL MODEL #USB20X2X	18"AFF
○ WB	DUPLEX RECEPTACLE FOR WHITE BOARD PROJECTOR — HUBBELL MODEL #CR5352X	AS REQUIRED
J	POLYMER CONCRETE PULL BOX W/ LOGO COVER - SEE DETAIL	AS REQUIRED

1.) 48" AFF INDICATES TO TOP OF DEVICE;

18" AFF INDICATES TO TOP OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

AC INDICATES 4" ABOVE COUNTER TO BOTTOM OF DEVICE.

U.N.O. INDICATES UNLESS NOTED OTHERWISE.

FLOOR BOX SYMBOL LEGEND:

FLOOR BOX W/ COVER PLATES FOR WIRING DEVICES AS INDICATED. PROVIDE SPECIAL SYSTEMS RACEWAYS, TWO — 1.5" OR AS NOTED ON ELECTRICAL DRAWINGS. PROVIDE BLANK COVERS FOR UNUSED COMPARTMENTS — HUBBELL MODEL # CFB6G30/610GCCVRBRZC.	SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	₽	SYSTEMS RACÉWAYS, TWO — 1.5" OR AS NOTED ON ELECTRICAL DRAWINGS. PROVIDE BLANK COVERS FOR UNUSED COMPARTMENTS — HUBBELL MODEL #	FLOOR

1.) TOP OF FLOOR BOX TO BE FLUSH WITH FINISHED FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FLOOR TYPES.

FIRE ALARM SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UN (SEE NOTE 1)
PS	FIRE ALARM MANUAL PULLSTATION - PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	48"AFF
AV AV	FIRE ALARM STROBE HORN CEILING OR WALL MOUNTED - PROVIDE 15/75 CANDELA U.N.O PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	80"AFF
SS SS WG	FIRE ALARM SPEAKER STROBE CEILING OR WALL MOUNTED — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE. PROVIDE WIREGUARD "WG" WHERE DESIGNATED.	80"AFF
FS WP	FIRE SPRINKLER RISER ALARM SPEAKER STROBE (WEATHER PROOF) – PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	80"AFF
\bigcirc	FIRE ALARM STROBE LIGHT CEILING OR WALL MOUNTED — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	80"AFF
<u>©</u>	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	CLG.
(a)	FIRE ALARM HEAT DETECTOR CEILING OR WALL MOUNTED — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	CLG.
DD	FIRE ALARM H.V.A.C. DUCT SMOKE DETECTOR W/ SHUNT TRIP RELAY — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE. PROVIDE A REMOTE TEST SWITCH.	
F	FIRE SPRINKLER FLOW SWITCH	
TS	FIRE SPRINKLER TAMPER SWITCH - PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	
	FIRE ALARM CONTROL/VOICE EVACUATION PANEL (FLUSH MOUNTED)	
	FIRE ALARM ANNUNCIATOR PANEL (SURFACE MOUNTED)	
RT	FIRE ALARM HVAC DUCT SMOKE DETECTOR REMOTE TEST SWITCH — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	48"AFF

1.) 48" AFF INDICATES TO TOP OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

SPECIAL SYSTEMS SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNG (SEE NOTE 1)
HFS	3-GANG FLAT SCREEN OUTLET - PROVIDE LARGE CAPACITY WALL BOX HUBBEL MODEL NO. HBL263 WITH 1.5" RACEWAY STUBBED INTO ACCESSIBLE CLG., PULL WIRE, MUD RING AND HBL981 LOW VOLTAGE DIVIDER.	72"AFF
H MM #	MULTIMEDIA OUTLET — PROVIDE 2—GANG MUD RING SECURED TO METAL STUDS WITH METAL STRAP WITH 1.5" RACEWAY STUBBED INTO ACCESSIBLE CLG. W/ PULL WIRE AND MUD RING — SEE DETAIL. NUMBER INDICATES AMOUNT OF DROPS.	18 " AFF
\(\psi\)	DATA OUTLET/VOICE OVER IP — PROVIDE BACK BOX WITH 1" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE — SEE DETAIL. NUMBER INDICATES AMOUNT OF DROPS.	18"AFF
♥ WAP	WIRELESS ACCESS POINT — PROVIDE BACK BOX WITH 1" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE — SEE DETAIL. NUMBER INDICATES AMOUNT OF DROPS.	CLG.

1.) 48" AFF INDICATES TO TOP OF DEVICE;

ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

INTRUSION DETECTION SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
MD	INTRUSION DETECTION MOTION DETECTOR FULL COVERAGE TYPE — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	9'-0"AFF
MD _H	INTRUSION DETECTION MOTION DETECTOR HALLWAY COVERAGE TYPE — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	9'-0"AFF
GB	INTRUSION DETECTION GLASS BREAK SENSOR	ABV. CLG.
KP	INTRUSION DETECTION KEYPAD PROVIDE WITH STI COVER — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	48"AFF
©	INTRUSION DETECTION DOOR MAGNETIC CONTACT - PROVIDE WITH 1/2"C AND PULLWIRE.	
SO	INTRUSION DETECTION INDOOR SIREN - PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	80"AFF
SOWP	INTRUSION DETECTION OUTDOOR SIREN - PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	10'-0" AFF

1.) 48" AFF INDICATES TO TOP OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

INTERCOM SYSTEMS SYMBOL LEGEND:

INTERCOM OF OF LINE OF MEDGE LEGEND.		
SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
SA	INTERCOM OUTDOOR HORN WEATHER PROOF - PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	9'–6"AFF
IC	INTERCOM BUTTON — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE .	48"AFF
S	INTERCOM SPEAKER CEILING MOUNT	CLG.
Н	INTERCOM ADMINISTRATION CONTROL STATION HANDSET — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE STUBBED INTO ACCESSIBLE CLG.	18"AFF

1.) 48" AFF INDICATES TO TOP OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

CAFETERIA & GYMNASIUM SOUND SYSTEMS SYMBOL LEGEND:

	SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)	
ADD	\	SPEAKER — PROVIDE BACK BOX WITH 1" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE.	SEE DETAIL	ADD
) E	MICROPHONE OUTLET — PROVIDE BACK BOX WITH 1" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE.	18"AFF	
	AL	ASSISTIVE LISTENING TRANSMITTER	24"BLC	
		AMPLIFIER (FLUSH MOUNTED)		

NOTES:

1.) 18" AFF INDICATES TO TOP OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

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GMS ARCHITECT 1150 Paredes Line Rd.

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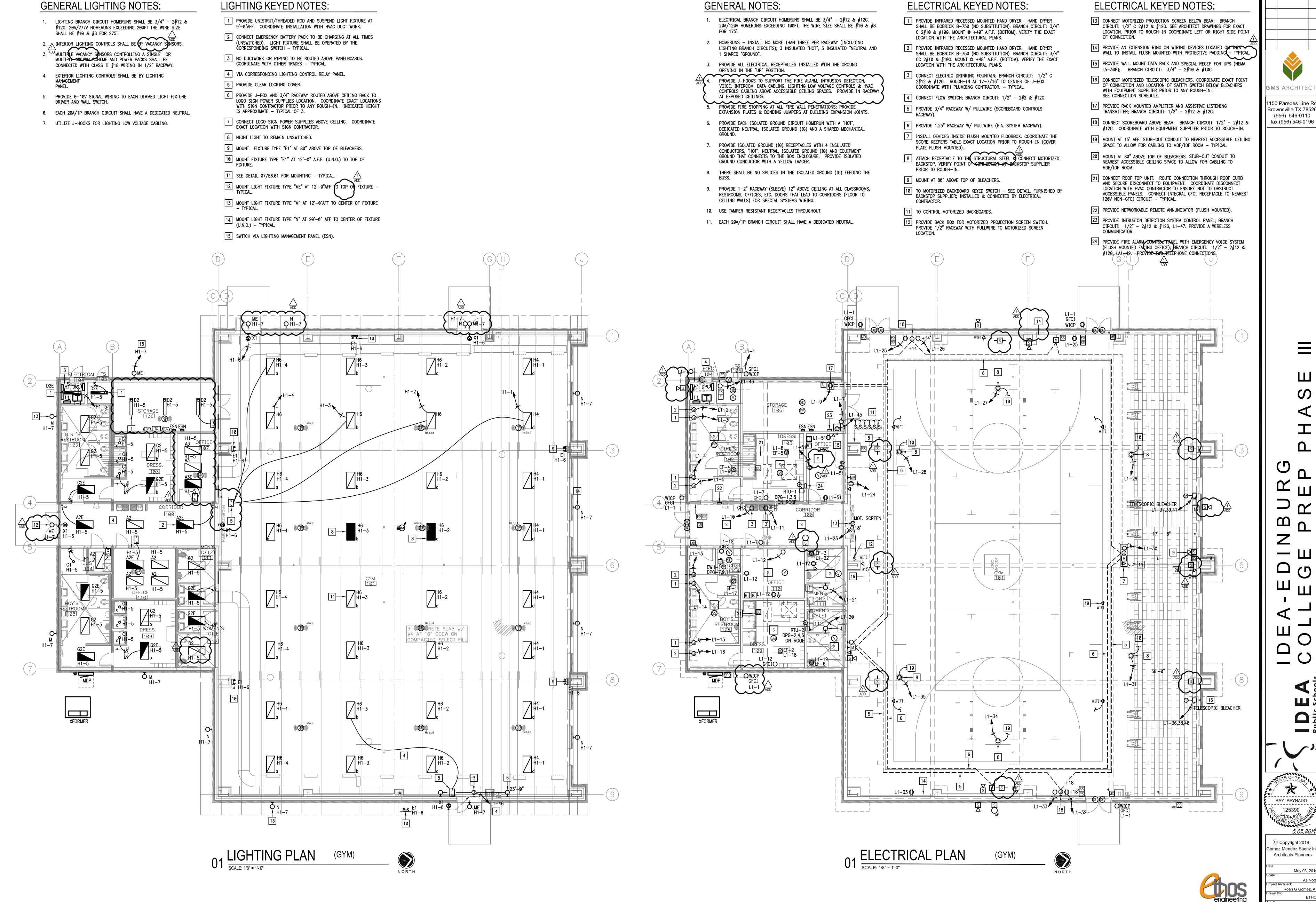
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RAY PEYNADO

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GMS ARCHITECTS

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LUMIN	AIRE SCHI	EDULE									
CALLOUT	LAMP	DESCRIPTION	DRIVER	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE	LUMENS / LAMP	LUMEN MAINT.	HOURS
A2	LED	2'X4' LAY-IN INDIRECT TROFFER	0-10V	RECESSED	LITHONIA: 2BLT4 40L EZ1 LP840 LSI: LPASC24 LED 40L UNV DIM1 40 U	34	277V 1P 2W		4032	L80	60,000
A2E	LED	2'X4' LAY-IN INDIRECT TROFFER	0-10V	RECESSED	LITHONIA: 2BLT4 40L EZ1 LP840 EL14L LSI-LPASC24 LFD 40L UNV DIM1 40 EM U	34	277V 1P 2W	PROVIDE WITH AN EMERGENCY BATTERY PACK.	4032	L80	60,000
A3	LED	2'X4' LAY-IN INDIRECT TROFFER	0-10V	RECESSED	LITHONIA: 2BLT4 48L EZ1 LP840 LSI:LPASC24 LED 48L UNV DIM1 40 U	45	277V 1P 2W		5234	L80	60,000
A3E	LED	2'X4' LAY-IN INDIRECT TROFFER	0-10V	RECESSED	LITHONIA: 2BLT4 48L EZ1 LP840 EL14L LSI: LPASC24 LED 48L UNV DIM1 40 EM U	4 5	277V 1P 2W	PROVIDE WITH AN EMERGENCY BATTERY PACK.	5234	L80	60,000
C1	LED	6" LENSED DOWN LIGHT	0-10V	CEILING	LITHONIA: LDN6 40/05 LO6AR 277 VANTAGE: A6VACLED 2 07 40 C601 SCL MD WHT	12	277V 1P 2W		662	L70	50,000
D2	LED	4' WRAPAROUND	0-10V	CHAIN/SURFACE	LITHONIA: SBL4 40L EZ1 LP840 LSI: NA10 LED SS NW UE	32	277V 1P 2W		3994	L90	50,000
D2E	LED	4' WRAPAROUND	0-10V	CHAIN/SURFACE	LITHONIA: SBL4 40L EZ1 EL14L LP840 LSI: NA10 LED SS NW UE EM	32	277V 1P 2W	PROVIDE WITH AN EMERGENCY BATTERY PACK.	3994	L90	50,000
E1	INC.	EMERGENCY LIGHTING UNIT		WALL	LITHONIA: IND12100 W H5012S SEL ELA WG2M MULE: NM4 12 100 2 12V(SBH) SD NC TD	20	277V 1P 2W	PROVIDE WITH A WIREGUARD, SELF-DIAGNOSTICS, LOAD DISCONNECT, & TIME DELAY.	2950		
G2	LED	2'X4' FLANGED TROFFER	0-10V	RECESSED	LITHONIA: 2GLT F 4 40 EZ1 LP840 ADD LSI: GA24 LED SS NW US 5K24	39	277V 1P 2W		4290	L80	72,000
G2E	LED	2'X4' FLANGED TROFFER	0-10V	RECESSED	LITHONIA: 2GLT F 4 40 EZ1 LP840 EL14L LSI: GA24 LED SS NW DE EW FK24	39	277V 1P 2W	PROVIDE WITH AN EMERGENCY BATTERY PACK.	4290	L80	72,000
H4	LED	24" X 48" HIGH BAY	0-10V	SURFACE	LITHONIA: IBE L24 15000LM SD080 MD MVOLT GZ10 40K 80CRI DWH WGIBE GE: ABV2 0 18 T 48 9D Q V ST K Q W	137	277V 1P 2W	PROVIDE A WIRE GUARD.	15000	L70	100,000
H6	LED	24" X 48" HIGH BAY	0-10V	SURFACE	LITHONIA: IBE L24 22000LM SD080 MD MVOLT GZ10 40K 80CRI DWH WGIBE GE: ABV2 0 24 T 48 9D Q V ST K Q W	217	277V 1P 2W	PROVIDE WITH A WIRE GUARD.	22000	L70	100,000
М	LED	WALLPACK	0-10V	SURFACE	LITHONIA: WSR LED 1 10A700/40K SR4 MVOLT X RAYON: T650LED DL 30 UN112 40 WT	22	277V 1P 2W	PROVIDE UL LISTED FOR WET LOCATIONS.	2655	L80	175,200
ME	LED	WALLPACK	0-10V	SURFACE	LITHONIA: WSR LED 1 10A700/40K SR4 MVOLT E10WH X RAYON: T650LED DL 30 UN112 40 WT EM	22	277V 1P 2W	PROVIDE UL LISTED FOR WET LOCATIONS AND WITH AN EMERGENCY BATTERY PACK. STANDARD COLOR FINISH TO BE SELECTED AT A LATER DATE.	2655	L80	175,200
N	LED	WALLPACK	0-10V	SURFACE	LITHONIA: WSR LED 2 10A700/40K SR4 MVOLT X RAYON: T650LED DL 45 UN112 40 WT MTO	45	277V 1P 2W	PROVIDE UL LISTED FOR WET LOCATIONS. STANDARD COLOR FINISH TO BE SELECTED AT A LATER DATE.	3404	L80	175,200
NE	LED	WALLPACK	0-10V	SURFACE	LITHONIA: WSR LED 2 10A700/40K SR4 MVOLT E20WC X RAYON: T650LED DL 45 UN112 40 WT MTO	45	277V 1P 2W	PROVIDE UL LISTED FOR WET LOCATIONS AND WITH AN EMERGENCY BATTERY PACK. STANDARD COLOR FINISH TO BE SELECTED AT A LATER DATE.	3404	L80	175,200
P1	LED	ARCHITECTURAL AREA LUMINAIRE	0-10V	POLE	LITHONIA: KAD LED 60C 700 40K R4 480 RPD 06 PIRH1FC3V DDBXD KW: RTAP25-7.0-7-BRZ-BC LSI: XGBM FT LED SS 40 NW 480 BRZ RPP2 PM0S480 LSI: RTPB5 A156 25 X BRZ 5RSAC VD	117	480V 2P 2W	PROVIDE FIXTURE UL LISTED FOR WET LOCATIONS AND WITH A MOTION SENSOR. POLE SHALL BIL 25 FOOT ROUND TAPERED ALUMINUM & RATED FOR 140MPH WINDS. PROVIDE POLE WITH A VIBRATION DAMPER. STANDARD COLOR FINISH TO BE SELECTED AT A LATER DATE.	15982	L79-08	100,000
P2	LED	ARCHITECTURAL AREA LUMINAIRE	0-10V	POLE	LITHONIA: KAD LED 60C 700 40K R5 480 RPD 06 PIRH1FC3V DDBXD KW: RTAP25-7.0-7-BRZ-BC LSI: XGBM 5 LED SS 40 NW 480 BRZ RPP2 PM0S480 LSI: RTPB5 A156 25 X BRZ 5RSAC VD	125	480V 2P 2W	PROVIDE FIXTURE UL LISTED FOR WET LOCATIONS AND WITH A MOTION SENSOR. POLE SHALL BE 25 FOOT ROUND TAPERED ALUMINUM & RATED FOR 140MPH WINDS. PROVIDE POLE WITH A VIBRATION DAMPER. STANDARD COLOR FINISH TO BE SELECTED AT A LATER DATE.	16961 1 ADD	L79-08	100,000
X1	LED	SINGLE SIDED EXIT SIGN		WALL/CEILING	BEGHELLI: FTZ-SA-LR1-UWW MULE LIGHTING: WLCX-1-R-W-U-SD	3	277V 1P 2W	PROVIDE WITH A UNIVERSAL MOUNTING CANOPY, LIGHT EMITTING DIODES, & A NI-CAD BATTERY PACK.	0		
COMPARISON 2. EXTRA MA 3. EMERGENO	HT FIXTURE MANU WITH SPECIFIED F TERIALS: SEE SPI Y BATTERY PACK	FIXTURES. ECIFCATIONS.			AL BY SUBMITTING CUT SHEETS OF THEIR SUBSTITUTIONS AT LEAST (10) DAYS T, ELECTRONIC CIRCUITRY, 1400 LUMENS OUTPUT, 90 MINUTES DURATION & FIVE			IALL INDICATE/HIGHLIGHT PHOTOMETRIC CURVE,	EFFICIENCY &	CONSTRUCTION F	OR DIRECT



SCALE : NOT TO SCALE



TYPE G3,G3E

SCALE : NOT TO SCALE

SCALE : NOT TO SCALE

TYPE A2,A2E, A3, A3E, G2

LUTRON QSWS2-2BRLI WALLSTATION

SCALE : NOT TO SCALE



SCALE : NOT TO SCALE

TYPE C1

TYPE M, ME, N, NE

SCALE : NOT TO SCALE

S C A L E : NOT TO SCALE



SCALE: NOT TO SCALE



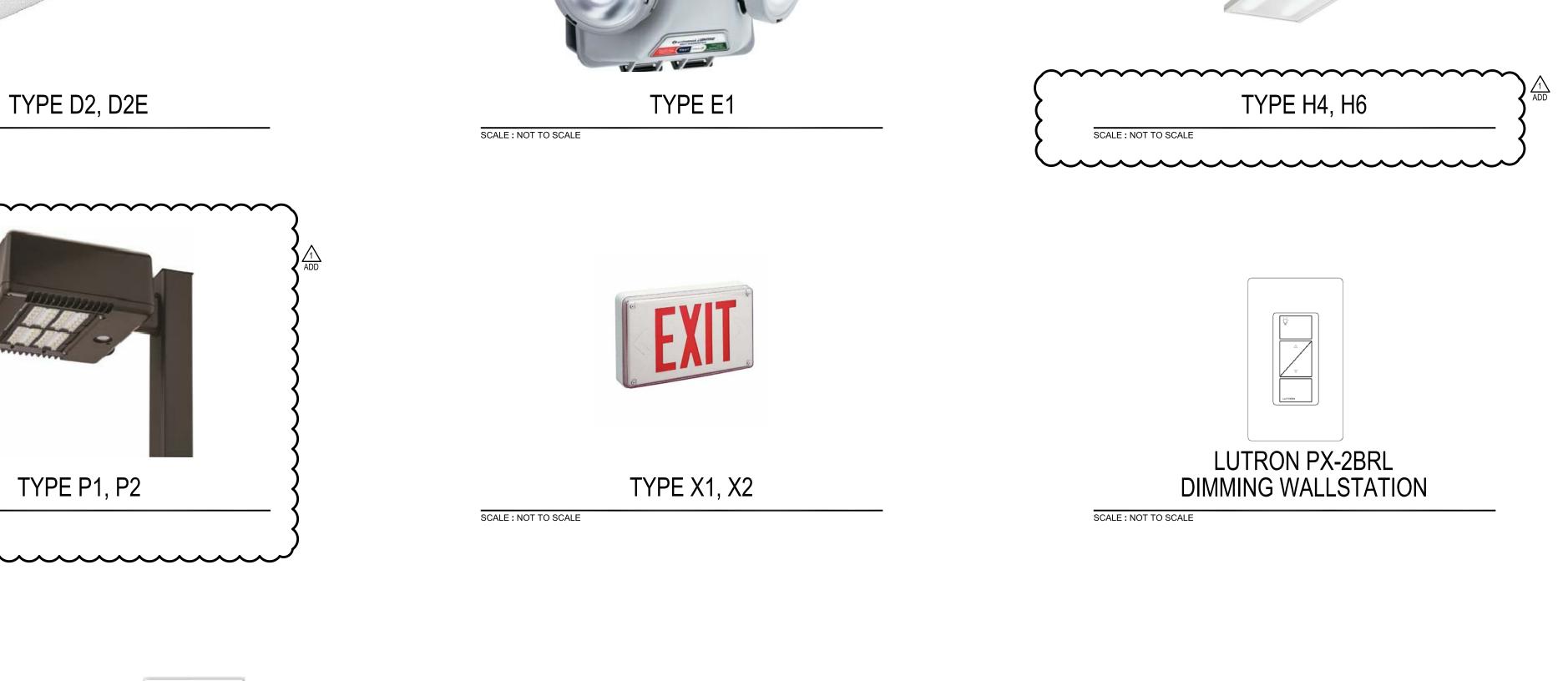
LUTRON QSWS2-KISI3MOC KEYED WALLSTATION



SCALE : NOT TO SCALE

LUTRON SENSOR





RACEWAYS EMBEDDED IN FOUNDATION GENERAL NOTES:

RACEWAYS EMBEDED WITHIN THE SLAB SHALL COMPLY WITH THE

1. SHALL HAVE A MINIMUM SPACING OF 2".

2. SHALL NOT BE LARGER THAN 1".

3. SHALL NOT BE RUN THROUGH THE SURFACE AREA OF THE FOOTING.

4. SHALL NOT BE CROSSED OVER/UNDER EACH OTHER WITH THE SLAB.

5. SHALL NOT BE TIED TO THE REBAR.

6. SHALL BE A MINIMUM OF 1.5" AWAY FROM SLAB REBAR. IF SPACING CANNOT BE ACCOMPLISHED; IT SHALL BE PROVIDED BELOW GRADE.

ELECTRICAL RISER DIAGRAM **KEYED NOTES:**

1 EXISTING MVEC SECTIONALIZER.

2 PROVIDE 2-4" PVC CONDUITS. PROVIDE LONG SWEEP RADIUS ELBOWS. 3 PROVIDE CONTINUOUS DETECTABLE UNDERGROUND WARNING TAPE.

4 NEW SECTIONALIZER PROVIDED BY MVEC.

5 PROVIDE UTILITY TRANSFORMER CONCRETE PAD — SEE DETAIL.

6 PROVIDE ELECTRIC UTILITY METER.

7 PROVIDE 1-1/4" - #6.

8 SEE GROUNDING RISER DIAGRAM - TYPICAL. 9 NOT USED. 10 PROVIDE 4" HOUSEKEEPING CONCRETE PAD - TYPICAL.

PROVIDE 1" RACEWAY WITH PULLWIRE FOR BACNET COMMUNICATION. STUB UP ABOVE ACCESSIBLE AND TERMINATE AT DATA RACK.

PROVIDE 270KA SPD EXTERNALLY MOUNTED ACT COMMUNICATIONS MODEL NO. ACT471-277Y/270-SEL-F-D-C1-SWM***.

EEEDER SCHEDIII E-

SIZING METHOD: COPPER 75°C

	ER SCHEDULE.	
FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
60	1" - 4#6 & #10G	H1
100	1.25" - 4#3 & #8G	L1
400	4" - 4#600KCMIL & #3G	DPG
800	(2-RUNS) 4" - 4#600KCMIL	MDP
		1

FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
60	1" — 3#4 & #8G	H1
100	1.5" - 4#1 & #6G	L1
400	(2-RUNS) 3" - 4#250KCMIL & #1G	DPG
800	(3-RUNS) 3" - 4#400KCMIL	MDP

FEEDER SCHEDULE - ALT. BID #1:

SIZING METHOD: ALUMINUM 75°C

TRANSFORMER SCHEDULE:

DESIGN	KVA	PV	SV	DEGREE RISE	CONNECTION	FREQ HZ	SERVES PANELS		CAT. NO.	PRIMARY FEEDER (75°C COPPER)
T-1	30	480	120/208	115	DELTA Y	60	L1	POWER SMITHS:	Esaver20M-30-480-208-HD-T115-F60	3/4" - 3#6 & #10G
* ENERGY	STATION									

EQUIPMENT CONNECTION SCHEDULE:

DESIGN	HP/KW	FLA	MCA	МОСР	VOLTAGE	DISCONNECT	BRANCH CIRCUIT
RTU-1	_	_	98.7	110	480V/3PHASE	200A, 3PNF, 600V, NEMA 3R.	1.25" - 3#2 & #6G
RTU-2	-	_	98.7	110	480V/3PHASE	200A, 3PNF, 600V, NEMA 3R.	1.25" - 3#2 & #6G
EWH-1	18 KW	21.6	_	30	480V/3PHASE	30A, 3PNF, 600V, NEMA 1.	3/4" - 3#10 & #10G
TELESCOPIC BLEACHER	2-1/2 HP	5.4	_	20	208V/3PHASE	30A, 3PNF, 240V, S/N, NEMA 1.	1/2" - 4#12 & #12G

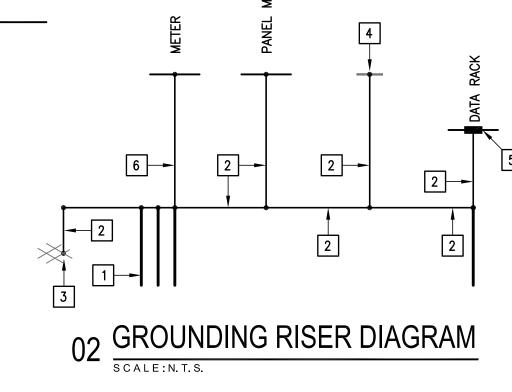
- (1) MEANS OF DISCONNECT IS THE CIRCUIT BREAKER (WITHIN SIGHT).
- (2) BUSSMAN: PS1, RATED FOR 100A, SHUNT TRIP, CONTROL POWER TRANSFORMER, FIRE SAFETY INTERFACE, KEY TO TEST SWITCH, PILOT LIGHT, MECHANICAL INTERLOCK AUXILIARY CONTACT, PHASE FAILURE/UNDER VOLTAGE RELAY, NEMA 1 ENCLOSURE.
- (3) EATON MANUAL STARTER "MS" SERIES.
- NOTE: LOCATE EQUIPMENT MEANS OF DISCONNECT WITHIN EQUIPMENT SIGHT. DO NOT INSTALL ON EQUIPMENT, BELOW DUCTWORK OR PLUMBING LINES.

EVENTION CONNECTION COLEDING.

1/2" - 2#12 & #12G
, " "
4 /0" 0 400
1/2" - 2#12 & #12G
_

GROUNDING DIAGRAM KEYED NOTES:

- 1 3/4" X 10' COPPER CLAD GROUND ROD. INSTALL THREE(3) GROUNDING ELECTRODES IN A TRIANGULAR PATTERN. MIN SPACING 6'.
- 2 #4 BARE COPPER GROUND ELECTRODE CONDUCTOR.
- 3 CADWELD TO BUILDING REBAR. 4 BOND/CLAMP TO COPPER WATER LINE.
- 5 GROUNDING BUS BAR TYPICAL.
- 6 #1/0 BARE COPPER GROUND ELECTRODE CONDUCTOR.



MOUN	1 104 NTING S			E	VOLTS BUS AMI	PS 400		4W			AIC 65,000 MAIN BKR	400			
	FROM N PROVI		PE WRITTEN AS		NEUTRAL RECTORY		INCLUDE	S ROO	ом пимв		LUGS STAN	DARD			
СКТ	CKT				L	OAD KV	Ά	СКТ	СКТ				L	OAD KV	Ά
#	BKR	CIRCU	IT DESCRIPTION		Α	В	С	#	BKR	CIRCUIT	DESCRIPTION	N	Α	В	С
1	110/3 	* RTU-	1		27.4	27.4		2 4	110/3 	* RTU-2			27.4	27.4	
5 7 9	 30/3 	EWH-1			6	6	27.4	6 8 10	 60/3 	** XFMR	T-1 (30KVA)		10.5	15.2	27.4
11 13	60/3	PANEL	H1		3.32	-	6	12 14	20/3	SPACE			0		11.9
15 17 19	 20/3	SPACE			0	3.47	1.27	16 18 20	 20/3	SPACE			0	0	0
21 23		OI NOL				0	0	22 24		OI MOE				0	0
		1							ТО	TAL CONI	NECTED KVA	BY PHASE	74.5	79.4	73.9
			CONN KVA	CALC KV	/A						CONN KVA	CALC KVA			
LIGH LAR(MOT	SEST MOTO)R	8.16 0.915 3.07	10.2 0.229 3.07	(125 (25 (10	%)		CONTI	PTACLES NUOUS ONTINUOUS NG		30.3 4.18 18 164	20.1 5.23 18 164	(50% (125% (100% (100%	%) %)	
							TOTAL	ng . Load NCED 3—PH	ASE AMPS	164	221 266	(100 9	%)		

ROOM	1 104		VOLTS	480Y/2	77V 3P	4W		AIC 14,000			
	O. ITING SI	IRFACE	BUS AM					MAIN BKR MLO			
	FROM D		NEUTRAL			LUGS STANDARD					
				RY THAT INCLUDES ROOM NUMBERS.							
СКТ СКТ		L	OAD KV	A	СКТ	CKT		L	OAD KV	/A	
#	BKR	CIRCUIT DESCRIPTION	Α	В	С	#	BKR	CIRCUIT DESCRIPTION	Α	В	С
1	20/1	LIGHTING	1.1			2	20/1	LIGHTING	1.74		
3	20/1	LIGHTING		1.74		4	20/1	LIGHTING		1.74	
5	20/1	LIGHTING			1.13	6	20/1	LIGHTING			0.13
7	20/1	LIGHTING	0.492			8	20/1	SPARE	0		
9	20/1	SPARE		0		10	20/1	SPARE		0	
11	20/1	SPARE			0	12	20/1	SPARE			0
13	20/1	SPARE	0			14	20/1	SPACE	0		
15	20/1	SPACE		0		16	20/1	SPACE		0	
17	20/1	SPACE			0	18	20/1	SPACE			0
19	20/1	SPACE	0			20	20/1	SPACE	0		
21	20/1	SPACE		0		22	20/1	SPACE		0	
23	20/1	SPACE			0	24	20/1	SPACE			0
							TO.	TAL CONNECTED KVA BY PHASE	3.32	3.47	1.27
CONN KVA CALC KVA								CALC KVA			
LIGHT	LIGHTING 8.06 10.1			5%)		TOTAL	LOAD	10.1			
			•	BALANCED 3-PHASE AMPS 12.1							

IOUN ED F	104 TING SU ROM T- PROVID		VOLTS BUS AM NEUTRAI T DIRECTORY	P2 125 100%)ADD		M NUMB	AIC 10,000 MAIN BKR 100 LUGS STANDARD ERS.			
KT	CKT		L	OAD KV	Α	CKT	CKT		L	OAD KV	/A
#	BKR	CIRCUIT DESCRIPTION	A	В	С	#	BKR	CIRCUIT DESCRIPTION	A	В	С
1	20/1	RECEPT.	1.26			2	20/1	HAND DRYER	1.5		
3	20/1	HAND DRYER		1.5		4	20/1	HAND DRYER		1.5	
5	20/1	HAND DRYER			1.5	6	20/1	EF-4			0.38
7	20/1	RECEPT.	0.54			8	20/1	EF-5	0.09		
9	20/1	AMPLIFIER		1.2		10	20/1	DRINKING FOUNTAIN		0.8	
11	20/1	DRINKING FOUNTAIN			0.8	12	20/1	RECEPT.			1.08
13	20/1	HAND DRYER	1.5			14	20/1	HAND DRYER	1.5		
15	20/1	HAND DRYER		1.5		16	20/1	HAND DRYER		1.5	
17	20/1	EF-1		†	0.388	18	20/1	EF-2		İ	0.09
19	20/1	EF-6	0.09			20	20/1	HAND DRYER	1.5		
21	20/1	HAND DRYER		1.5		22	20/1	EF-3		0.09	
23	20/1	MOT. SCREEN			0.1	24	20/1	RECEPT.			0.36
25	20/1	RECEPT.	0.36			26	20/1	SCOREBOARD	1.4		
27	20/1	MOT. BACKBOARD	3.33	0.8		28	20/1	MOT. BACKBOARD		0.8	i
29	20/1	MOT. BACKBOARD		0.0	0.8	30	20/1	RECEPT.		0.0	0.18
31	20/1	MOT. BACKBOARD	0.8		0.0	32	20/1	SCOREBOARD	1.4		0,,,
33	20/1	RECEPT.	0.0	0.36		34	20/1	MOT. BACKBOARD	'''	0.8	
35	20/1	MOT. BACKBOARD		0.00	0.8	36	20/3	TELESCOPIC BLEACHER		0.0	0.30
37	20/3	TELESCOPIC BLEACHER	0.305		0.0	38	1	TELEGOOT TO BEET OTHER	0.305		0.00
39	1	TELEGOOI TO BEENOMEN	0.000	0.305		40	l		0.000	0.305	
41	i			0.000	0.305	42	20/2	SPARE		0.000	0
43	20/1	FLOW SWITCH	0.18		0.000	44	20,2	SI AIL	1 0		
45	30/1	IDF - UPS	0.10	2.88		46	20/1	LOGO SIGN		0.1	
47	20/1	INTRUSION PANEL		2.00	0.1	48	20/1	SPARE		0.1	0
19	20/1	FIRE ALARM CONTROL PANEL	1.2		0.1	50	20/1	SPARE	1 0		0
51	20/1	RECEPT.	1.2	0.72		52	20/1	SPARE	"	0	
53	20/1	SPARE		0.72	o	54	20/1	SPARE		0	0
55	20/1	SPARE	0			56	20/1	SPARE	1 0		0
57	20/1	SPARE	"	0		58	20/1	SPARE	"	0	
59	20/1	SPARE		0	o	60	20/1	SPARE		0	0
	20/1	JI AILL				- 00			17.0	16.7	
							10	TAL CONNECTED KVA BY PHASI		16.7	7.2
			LC KVA					CONN KVA CALC K			
LIGH1		0.1 0.129	•	5%)		MOTOF		3.07 3.07	(100	•	
LARG	est moto	R 0.915 0.22	9 (25	5%)			TACLES	30.4 20.2	•	S>10)	
						CONTI	NUOUS	4.18 5.23	(125	%)	
						ΤΩΤΔΙ	LOAD	28.9			
								IASE AMPS 80.1			

	OP u outdo	ORS			VOLTS	480Y/2	77V 3P	4W			AIC 100,00	00			
MOUN	NTING SU	JRFACE			BUS AMPS 800						MAIN BKR	MLO			
	FROM U		WRITTEN AS		NEUTRAL RECTORY		INCLUDE	S RO	OM NUMB	ERS.	LUGS STAN	NDARD			
CKT	CKT				L	OAD KV	A	СКТ	CKT				L	OAD KV	Α
#	BKR	CIRCUIT	DESCRIPTION		Α	В	С	#	BKR	CIRCUIT	DESCRIPTIO	DN	Α	В	C
1 3	400/3	PANEL DPO	3		74.6	79.5		2	400/3	SPARE			0	0	
\$\frac{1}{2}	100/3	SPACE	∞	\sim	(C)	0	74	6 8 10	100/3	SPACE	\sim	$\sim\sim$		ADD O	C
13	200/3	SPACE	~~~	~~			0	12 14 (200/3	SPACE	~~~	~~~		ADD	0
15 17						0	0	16 18						0	O
									TO	TAL CON	NECTED KVA	A BY PHASE	74.6	79.5	74
			CONN KVA	CALC K	/A						CONN KVA	CALC KVA			
LIGH	TING		8.23	10.3	 (12	5%)		RECEF	PTACLES		30.4	20.2	— (50%	>10)	
	GEST MOTO	₹	0.915	0.229	(25	•			NUOUS		4.18	5.23	(125		
MOT	ORS		3.07	3.07	(10	0%)		NONC HEATI	ONTINUOUS NG		18 164	18 164	(1005 (1005	•	
									LOAD NCED 3-PH			221 266	•		

2. PROVIDE MULTI-METERING PACKAGE (BACNET).
3. PROVIDE SERVICE ENTRANCE RATED.

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lo. | REVISIONS | BY | MAY 24, 2019

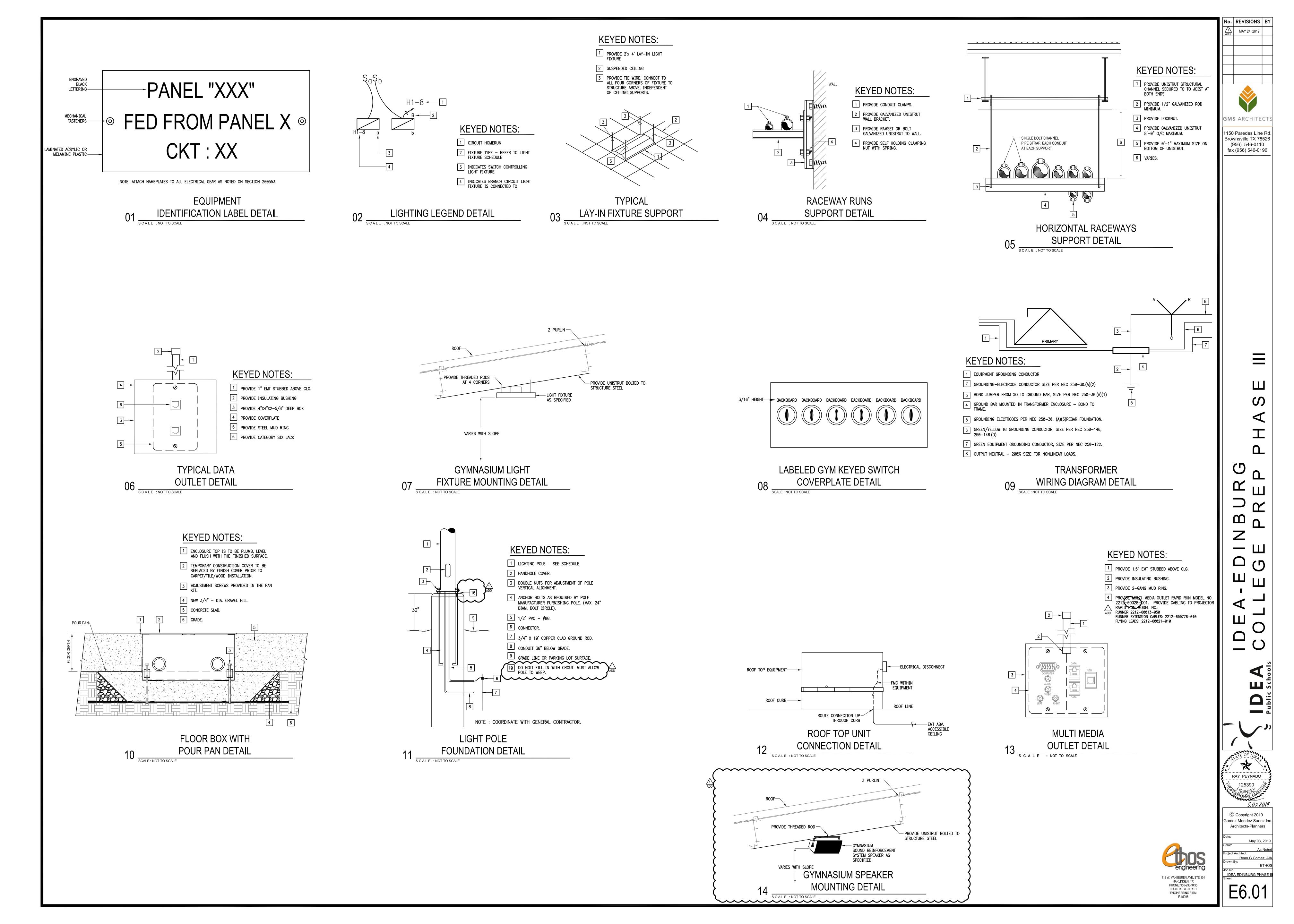
GMS ARCHITECTS

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RAY PEYNADO

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IDEA EDINBURG PHASE I

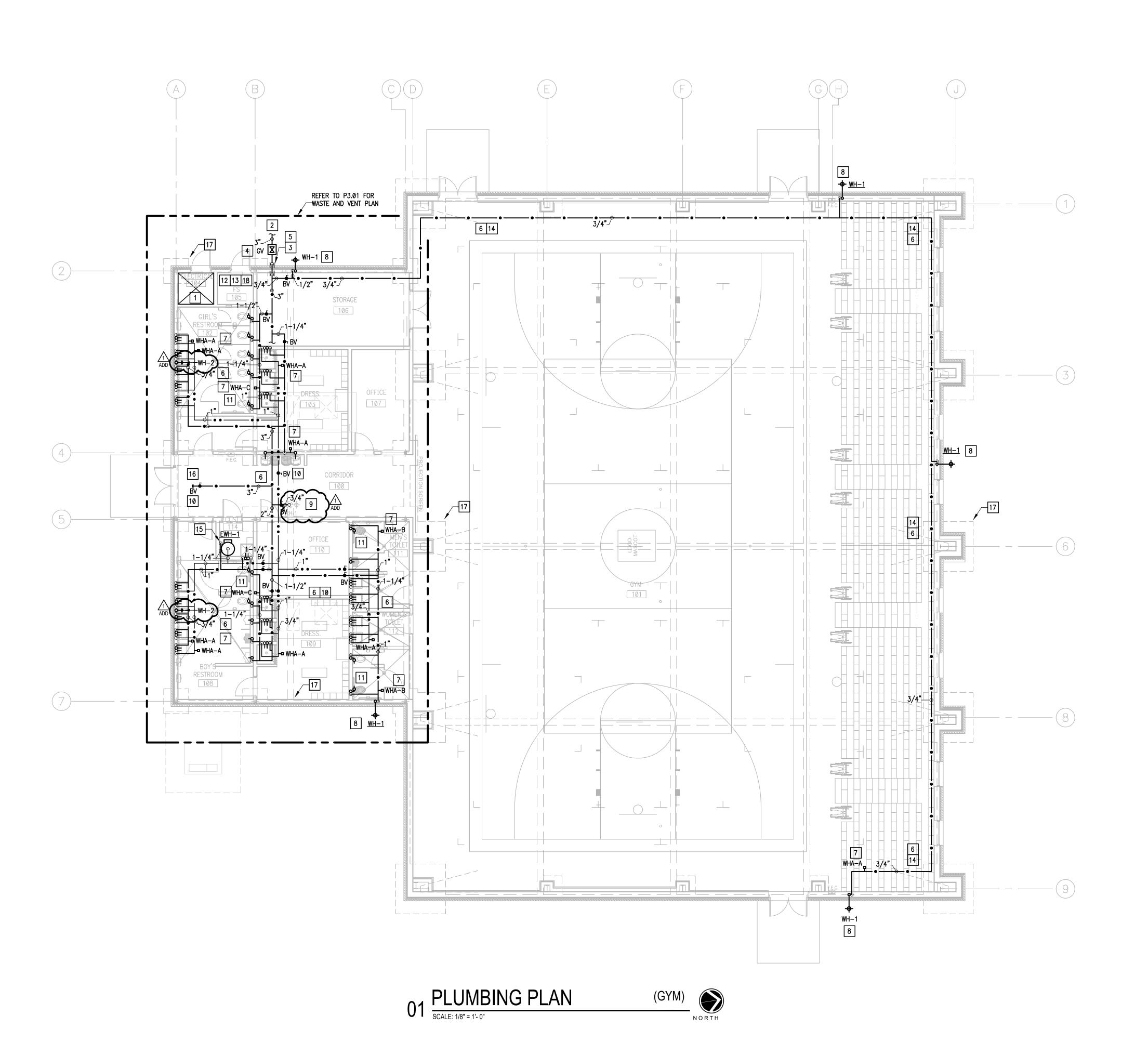


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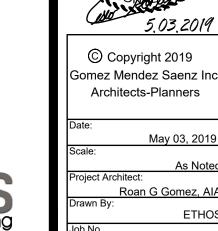
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- CLEARANCE FOR ELECTRICAL PANELS. ROUTE NO PIPING OVER THIS AREA. REFER TO ELECTRICAL PLANS FOR EXACT LOCATION OF ELECTRICAL ROOMS.
- 2 REFER TO MEP SITE PLAN FOR CONTINUATION.
- 3 SLEEVE ALL GRADE BEAMS, FLOOR SLABS AND MASONRY WALL PENETRATIONS PER DETAIL WHETHER SPECIFICALLY INDICATED ON PLANS
- PROVIDE GATE VALVE IN QUAZITE BOX. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- PROVIDE 1" CLOSED-CELL INSULATION WITH METAL JACKET ON EXPOSED PIPING. PENETRATE EXTERIOR WALL AS LOW AS POSSIBLE. TURN DOWN TO UNDERGROUND.
- PROVIDE PIPING SUPPORT AS PER SPECS AND DETAIL. SEE ASSOCIATED DETAIL ON DETAIL SHEET. (TYPICAL)
- PROVIDE BELLOWS TYPE WATER HAMMER ARRESTOR (WHA), MIFAB OR APPROVED EQUAL. INDICATED MODEL (A,B,C,D,E,F) AS PER MIFAB SIZING CHART. PROVIDE 12"X12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA. ACCESS PANEL EQUAL TO ACUDOR MODEL UF5000 WITH CYLINDER LOCK AND KEY AND PAINT TO MATCH THE WALL/CEILING. (TYPICAL)
 - PROVIDE WALL HYDRANT AS SCHEDULED. PROVIDE CLOSE COUPLED HYDRANT TO ENSURE PIPE TURNS UP INSIDE BLOCK WALL. COORDINATE WALL THICKNESS WITH WALL HYDRANT MANUFACTURER DATA. (TYPICAL)

 PROVIDE DOMESTIC WATER PIPING TO ROOF AND CONNECT TO WATER HOSE BIBB. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- PROVIDE BRONZE ISOLATION BALL VALVE ABOVE CEILING OR BEHIND WALL. PROVIDE 12"X12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA. ACCESS PANEL EQUAL TO ACUDOR MODEL UF5000 WITH CYLINDER LOCK AND KEY AND PAINT TO MATCH THE WALL/CEILING. PROVIDE VALVE IDENTIFICATION TAGS AS PER SPECIFICATIONS. (TYPICAL)
- INSTALL WATER CLOSET FLUSH VALVE HANDLE TOWARDS WIDE SIDE OF THE ROOM. COORDINATE WITH GENERAL CONTRACTOR.
- FIRE SPRINKLER RISER LOCATION. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- COORDINATE FREE STANDING FDC AND PROVISION OF BACK FLOW PREVENTER WITH CIVIL.
- PAINT ALL EXPOSED PIPING TO MATCH ARCHITECTURAL FINISHES. COORDINATE COLOR WITH ARCHITECT.
- PROVIDE ELECTRIC WATER HEATER AS SCHEDULED. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- CAP END OF DOMESTIC WATER LINE FOR FUTURE ADDITION OF BUILDINGS.
- STRUCTURAL FOUNDATION SHOWN FOR REFERENCE AND COORDINATION PURPOSES. REFER TO STRUCTURAL DRAWINGS FOR MORE DETAILS.
- PROVIDE FIRE SPRINKLER LINE WITH BACK FLOW PREVENTER ON RISER. REFER TO CIVIL DRAWING FOR FIRE LINE CONTINUATION. VERIFY SIZE OF FIRE SPRINKLER LINE BY MEANS OF CALCULATION AND COORDINATE WITH GENERAL CONTRACTOR.



CESAR A. GONZALEZ



PLUMBING KEYED NOTES:

- EMBEDDED IN THE CONCRETE FLOOR SLAB. ENCASE PIPING INSIDE WALL AND UNDER FLOOR SLAB IN POLYETHYLENE SLEEVE. "POLY-SLEEVE" OR

- 8 PROVIDE 4" VENT UP THRU ROOF.
- 10 DROP SANITARY SEWER PIPING AT THIS APPROXIMATE LOCATION.
- STRUCTURAL FOUNDATION SHOWN FOR REFERENCE AND COORDINATION PURPOSES. REFER TO STRUCTURAL DRAWINGS FOR MORE DETAILS. (TYPICAL).

MAY 24, 2019

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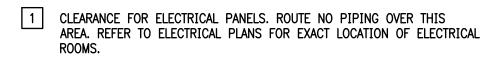
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SLEEVE ALL GRADE BEAMS, FLOOR SLABS AND MASONRY WALL PENETRATIONS PER DETAIL WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT.

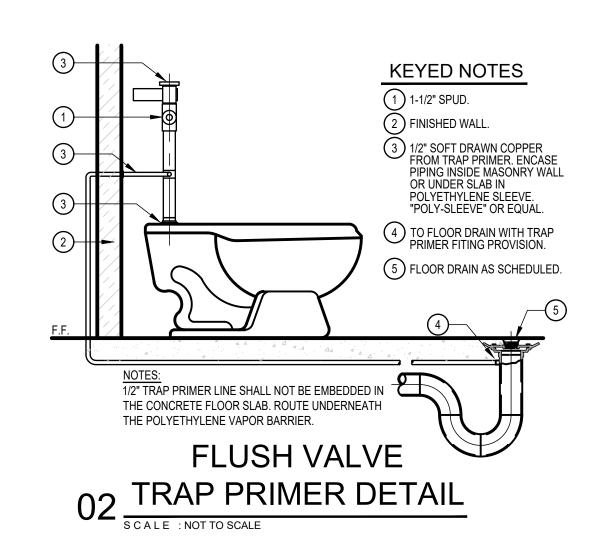
PROVIDE FLOOR DRAIN AS SCHEDULED. SET FLUSH WITH FINISHED FLOOR. SEE ASSOCIATED DETAIL ON DETAIL SHEET (TYPICAL).

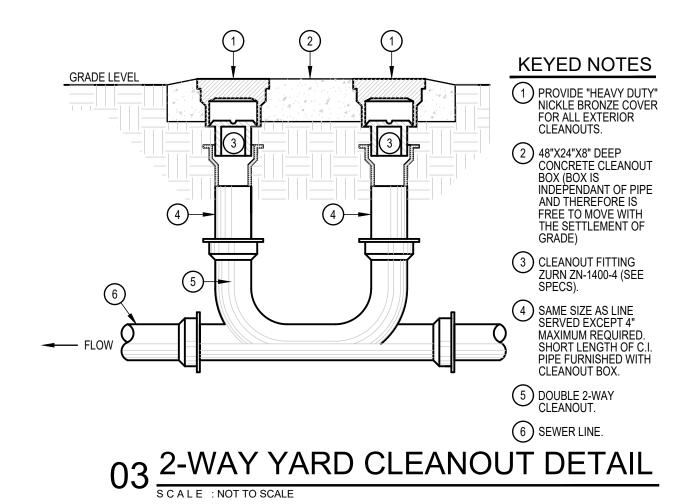
PROVIDE 1/2" SOFT DRAWN COPPER FROM TRAP—PRIMER. ROUTE PIPING UNDERNEATH THE POLYETHYLENE VAPOR BARRIER. PIPING SHALL NOT BE

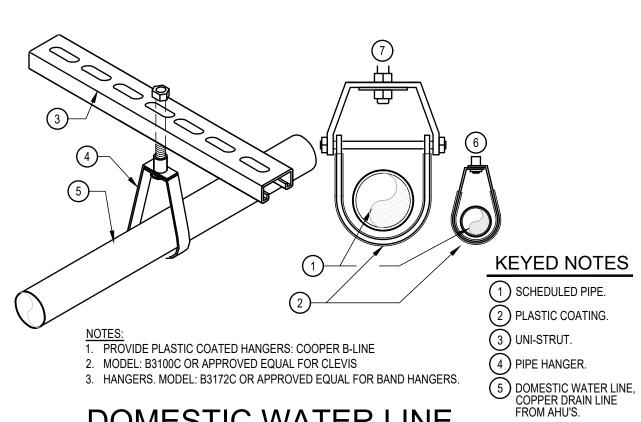
6 CONNECT TO (WC) FLUSH VALVE TRAP-PRIMER. SEE ASSOCIATED DETAIL ON DETAIL SHEET.

7 CONNECT TO LAVATORY P-TRAP PRIMER ZURN Z1021 OR APPROVED EQUAL.

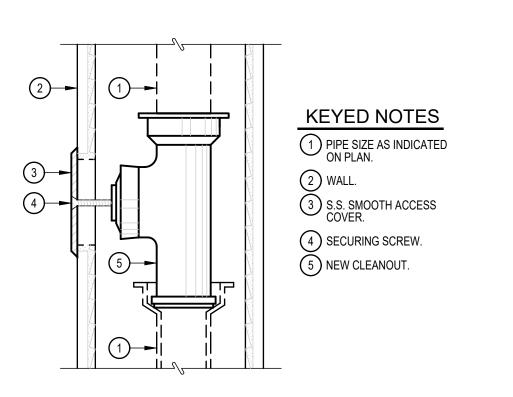
9 RUN SANITARY SEWER PIPING INSIDE WALL CAVITY AND ABOVE CONCRETE SLAB TO CLEAR GRADE BEAM..







DOMESTIC WATER LINE
04 PIPING SUPPORT DETAIL
SCALE : NOT TO SCALE



05 WALL CLEANOUT DETAIL
SCALE: NOT TO SCALE

KEYED NOTES

GALVANIZED SCH.40 STEEL OR COPPER SLEEVE, SIZE TO BE

MINIMUM 3/8" LARGER IN DIAMETER THAN

PLUMBING PIPE (RELIEF LINES DOMESTIC WATER, AIR, AND GAS

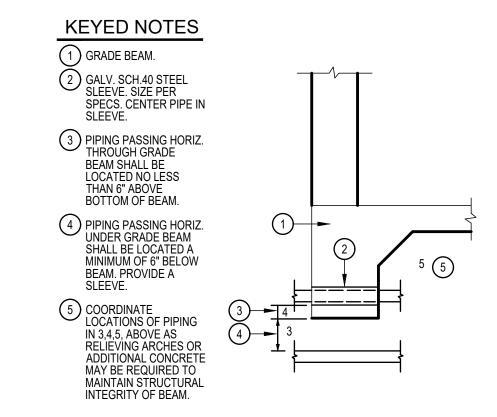
4 FILL VOID WITH MINERAL WOOL AND CAULK VERMIN TIGHT.

PIPING.)

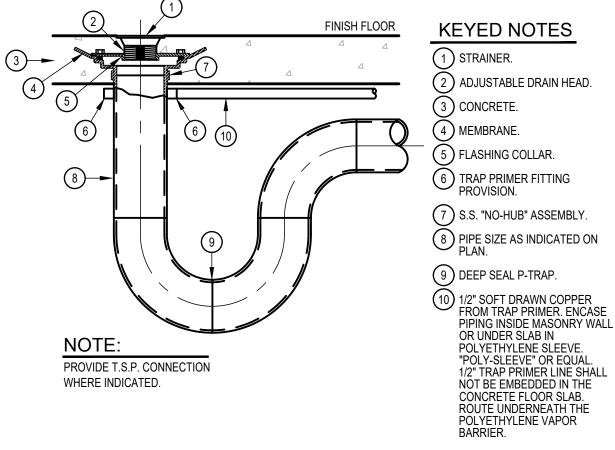
08 WALL SLEEVE DETAIL

PIPE AND INSULATION.

1 MASONRY WALL.



06 GRADE BEAM SLEEVE DETAIL



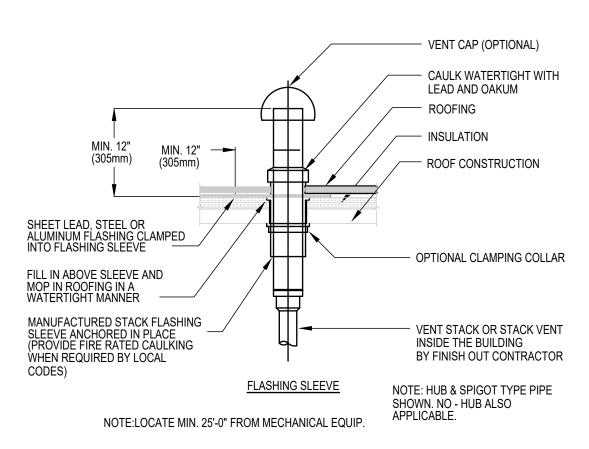
FD-1 FLOOR DRAIN WITH 09 TRAP PRIMER DETAIL
SCALE: NOT TO SCALE

PLUMBING SY	MBOLS LEGEND		
•	COLD WATER SUPPLY	wco I ├	WALL CLEANOUT
•••	HOT WATER SUPPLY	→ ⋈—	*GATE VALVE (GV)
— g g—	GAS LINE	•	*BALL VALVE (BV)
	SOIL & WASTE LINE - ENLARGED PLANS	A	VALVE IN RISER TYPE AS NOTED
	VENT LINE - ENLARGED PLANS	WC	WATER CLOSET
AW	ACID WASTE LINE - ENLARGED PLANS	UR	URINAL
AV	ACID VENT LINE - ENLARGED PLANS	L	LAVATORY
F	FIRE SPRINKLER LINE	SK	SINK
FCO(O)	FLOOR CLEANOUT	EDF	ELECTRIC DRINKING FOUNTAIN
-O-O- FCO-2	FLOOR CLEANOUT - 2 WAY	MSB	MOP SERVICE BASIN
FD 🍪 C FD 🎉 C	FLOOR DRAIN (FD) WITH DEEP SEAL TRAP	EESHR	EMERGENCY EYE/SHOWER
HDCC	HUB DRAIN WITH DEEP SEAL TRAP	TP	TRAP PRIMER
	FLOOR SINK	EWH	ELECTRIC WATER HEATER
YCO 🔾	YARD CLEANOUT	VTR	VENT THRU ROOF
<u>O-O-</u> YCO-2	YARD CLEANOUT - 2 WAY	СО	CLEANOUT
WH -	WALL HYDRANT	A.F.F.	ABOVE FINISH FLOOR
G 	TRAP PRIMER	ADT	ACID DILUTION TANK
P	*WATER HAMMER ARRESTOR (WHA)	GT	GREASE TRAP

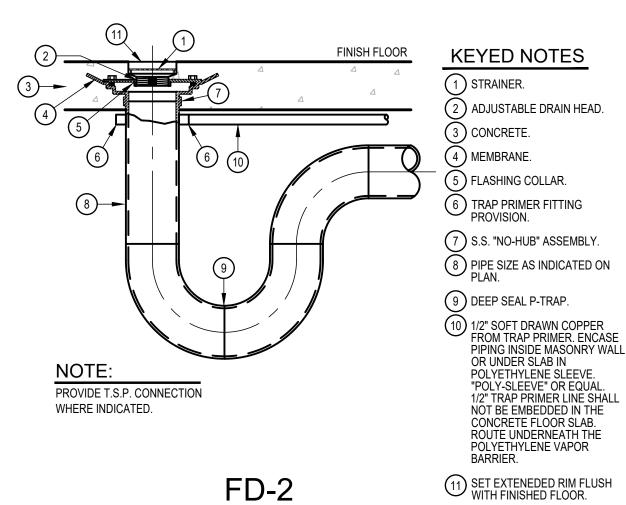
* PROVIDE 12"x12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA.

GENERAL NOTES: (APPLY TO ALL PLUMBING SHEETS)

- 1. ALL PLUMBING WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADAPTED AND AMENDED BY THE INSPECTING
- 2. DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
- 3. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH THE WORK OF OTHER TRADES. COORDINATE WITH MECHANICAL, ELECTRICAL AND STRUCTURAL FOR PROPER CLEARANCES.
- 4. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASING AND SEQUENCE OF CONSTRUCTION WORK.
- 5. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR.
- 6. SLEEVE ALL OUTSIDE WALLS, FOUNDATION GRADE BEAMS, INTERIOR WALL PENETRATIONS, AND FIRE SEAL ALL PENETRATION THROUGH FIRE WALLS AND FLOORS WHETHER SHOWN ON PLANS OR NOT.
- 7. PROVIDE MINIMUM 15' OF SEPARATION BETWEEN HVAC INTAKES AND VENT THRU ROOFS.
- 8. RECORD INVERT ELEVATIONS OF ALL YARD CLEAN OUT (YCO) ON "AS-BUILT" DRAWINGS.
- 9. PROVIDE SHUT-OFF VALVES (STOPS) ON ALL ROUGH-INS TO FIXTURES AND EQUIPMENTS.
- 10. PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS. AIR CHAMBERS NOT AN APPROVED SUBSTITUTE
- 11. PROVIDE ANY BACKFLOW PREVENTION DEVICE REQUIRED BY CODE OR LOCAL AUTHORITIES. CONTRACTOR SHALL VERIFY THIS WITH CITY AND LOCAL AGENCIES AND INCLUDE COST IN BID. CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.
- 12. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR INDIVIDUAL PIPE CONNECTIONS TO FIXTURES.
- 13. PRIOR TO POURING FOUNDATION AND ERECTING CMU WALLS, COORDINATE INSTALLATION OF PLUMBING FIXTURE CARRIERS WITH GENERAL CONTRACTOR.
- 14. METAL STUDS AT DRY WALLS SHALL NOT BE CUT THRU HORIZONTAL DIRECTION. COORDINATE WITH DRY WALL CONTRACTOR.
- 15. CONTRACTOR SHALL NOT CUT ANY EXTERIOR WALL METAL STUD.



VENT THRU ROOF 07 DETAIL SCALE : NOT TO SCALE



FD-2 FLOOR DRAIN WITH 10 TRAP PRIMER DETAIL
SCALE: NOT TO SCALE

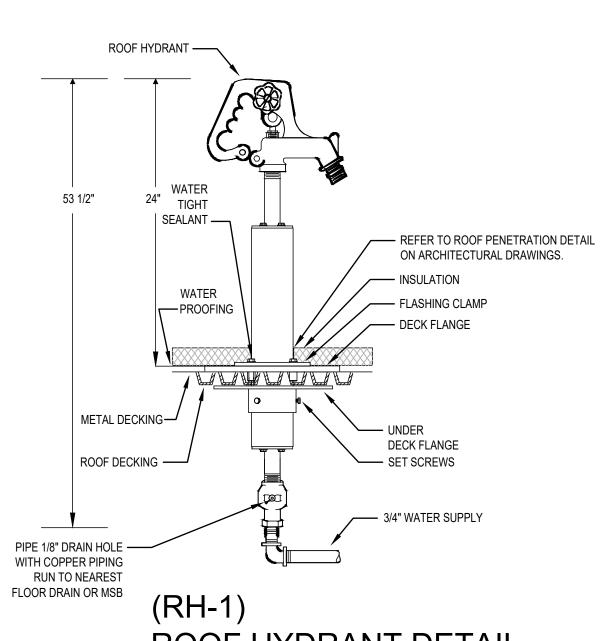
MARK	MANUFACTURER & MODEL NUMBER	DESCRIPTION	WASTE	VENT	CTIONS	HW	NOTES	REMARKS
WC-1	AMERICAN STD. 3451.001 SLOAN ROYAL #111-1.6 SEAT 5901.100	MERICAN STD. 3451.001 SLOAN ROYAL #111-1.6 SEAT MERICAN STD. 3451.001 15" HIGH LOW CONSUMPTION FLUSH VALVE, WHITE VITREOUS CHINA WATER CLOSET WITH ELONGATED SIPHON JET ACTION BOWL, 1.6GPF TOP FLUSH VALVE, WHITE OPEN FRONT SEAT LESS COVER AND BOLT CAPS FOR ADULT STANDARD MOUNTING.				-	1,3	15" TO TOP OF R
WC-2	AMERICAN STD. 3461.001 SLOAN ROYAL #111-1.6 SEAT 5901.100	16-1/2" HIGH LOW CONSUMPTION FLUSH VALVE, WHITE VITREOUS CHINA WATER CLOSET WITH ELONGATED SIPHON JET ACTION BOWL, 1.6GPF TOP FLUSH VALVE, WHITE OPEN FRONT SEAT LESS COVER AND BOLT CAPS FOR ADULT ADA MOUNTING.	4"	2"	1"	-	1,2,3	17"-19" TO TOP OF S
UR-1	AMERICAN STD. 6590.001 SLOAN ROYAL #186-0.5 ZURN # Z1222 CARRIER	WALL MOUNTED FLUSH VALVE, WHITE VITREOUS CHINA LOW CONSUMPTION 0.5 GPF URINAL WITH 14" DEEP BOWL, 3/4" TOP SPOUT FLUSH VALVE AND CARRIER FOR ADULT STANDARD MOUNTING	3"	2"	3/4"	-	2	22" TO RIM OF BA
UR-2	SAME AS UR-1	SAME AS UR-1 EXCEPT FOR ADULT ADA MOUNTING	3"	2"	3/4"	-	2	17" TO RIM OF BA
L-1	KOHLER KINGSTON K-2005 CHICAGO FAUCETS 420-T41E2805ABCP 0.5 GPM AERATOR ZURN #Z1231 CARRIER 17 GA. DRAIN AND 17 GA. P-TRAP W/CLEAN OUT TRUEBRO LAV SHIELD	21" X 18" WALL MOUNTED WHITE VITREOUS CHINA, 4" ON CENTER HOLES LAVATORY WITH FRONT OVERFLOW AND CONCEALED ARMS SUPPORT. SINGLE LEVER, 4" ON CENTER, CHROME PLATED SOLID BRASS CONSTRUCTION FAUCET WITH THERMOSTATIC MIXING VALVE, ASSE 1070 COMPLAINT, SCALDING PROTECTION INCLUDED, SET AT 110 DEGREES. CHROME PLATED SUPPLY STOPS AND ESCUTCHEONS WITH STAINLESS STEEL FLEXIBLE CONNECTORS, CHROME PLATED DRAIN GRID AND TAILPIECE, P-TRAP AND CARRIER FOR ADULT STANDARD MOUNTING		2"	1/2"	1/2"	3-6	32" FROM FLOOR TO
L-2	SAME AS L-1	SAME AS L-1 EXCEPT FOR ADULT ADA MOUNTING	2"	2"	1/2"	1/2"	3-6	34" FROM FLOOR TO
SHR-1	LEONARD AQUATROL 4500-H-06-1.5GPM-VS 515P(G)-D2L ADA RATED SHOWER	CONCEALED MOUNTED PRESSURE BALANCING VALVE ASSE 1016 LISTED WITH LOW FLOW INSTITUTIONAL 1.5GPM SHOWERHEAD AND VANDAL RESISTANT SCREWS. HIGH SCHOOL STANDARD MOUNTING.	3"	2"	1/2"	1/2"		
SHR-2	LEONARD AQUATROL 4500-H-06-1.5GPM-VS 515P(G)-D2L ADA RATED SHOWER	CONCEALED MOUNTED PRESSURE BALANCING VALVE ASSE 1016 LISTED WITH LOW FLOW INSTITUTIONAL 1.5GPM SHOWERHEAD AND VANDAL RESISTANT SCREWS. PROVIDE HAND SHOWER, DIVERTER VALVE, STAINLESS STEEL SEAT AND GRAB BARS. HIGH SCHOOL ADA MOUNTING.	3"	2"	1/2"	1/2"		
EDF-1	ELKAY LVRCTL8SC LKAPREZL APRON ZURN Z-1225 CARRIER	BI-LEVEL FILTERED ELECTRIC DRINKING FOUNTAIN, FRONT AND SIDE TOUCH CONTROLS, 8.0 GPH, FLEXI GUARD SAFETY BUBBLERS, PVC P-TRAP, APRON AND CARRIER. FOR ADULT STANDARD & ADA MOUNTING. OUTDOOR RATED, VANDAL RESISTANT. PROVIDE WATER SENTRY FILTER 51300C.		2"	1/2"	-		SEE ARCHITECTURAL
MSB-1	FIAT TSB 3000 MOP BASIN #832-AA HOSE & BRACKET #830-AA FAUCET #889-CC MOP BRACKET #MSG 2424 WALL GUARD #1453-BB STRAINER	24X24X12 PRECAST TERRAZO MOP SERVICE BASIN WITH HOSE AND HOSE BRACKET, FAUCET, MOP BRACKET, WALL GUARD AND STRAINER.	3"	2"	3/4"	3/4"		
WH-1	ZURN # Z1300-SS-34UN HYDRANT	ENCASED NON-FREEZE ANTI-SIPHON WALL HYDRANT, BRONZE, NON-TURNING OPERATING ROD STOP VALVE IN SUPPLY, KEY OPERATED CONTROL VALVE, STAINLESS STEEL BOX WITH HINGED COVER.	-	-	3/4"	-		
WH-2	ZURN # Z1350 HYDRANT	ENCASED MODERATE CLIMATE WALL HYDRANT FOR NARROW WALL, CHROME, SCREWDRIVER OPERATED STOP VALVE IN SUPPLY, KEY OPERATED CONTROL	-	-	3/4"	-		
FD-1	ZURN # ZN415B-P	BODY ASSEMBLY WITH TYPE B STRAINER, DURA COATED CAST IRON BODY WITH BOTTOM OUTLET INVERTED MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH TRAP PRIMER CONNECTION.	3"	2"	-	-		
FD-2	ZURN # ZN415I-P	BODY ASSEMBLY WITH TYPE I STRAINER, DURA COATED CAST IRON BODY WITH BOTTOM OUTLET INVERTED MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH TRAP PRIMER CONNECTION.	3"	2"	-	-		
RD-1	MIFAB 1200-W	15" DIA. LARGE SUMP ROOF DRAIN, GALV. SUMP RECEIVER CAST IRON DRAIN BODY, C.I. WATERPROOFING MEMBRANE CLAMP RING WITH INTEGRAL GRAVEL STOP, OVERFLOW STANDPIPE, SELF-LOCKING POLYETHYLENE DOME STRAINER.	SEE PLANS					
RH-1	JAY R. SMITH 5906	NON-FREEZE ROOF HYDRANT WITH GALV. CASING AND ADJUSTABLE FLOW WHEEL LOCK HANDLE WITH DECK FLANGE AND UNDEER DECK	-	_	3/4"	_		

- 1. INSTALL FLUSH VALVE ON THE WIDE SIDE OF STALL.
- 2. PROVIDE ADA APPROVED FLUSH VALVE HANDLE FOR ALL ADA PLUMBING FIXTURES. 3. REFER TO PLUMBING PLAN FOR FIXTURES THAT WILL REQUIRE TRAP PRIMER CONNECTIONS.
- 4. PROVIDE TRUEBRO LAVATORY (WHITE) LAV SHIELD MODEL #2018 (KO-K PRE-CUT). SHIELD SHALL BE SECURED TO WALL AS PER MANUFACRUER'S RECOMMENDATION. 5. PROVIDE TRUEBRO LAVATORY GUARD MODEL #103 COLOR WHITE. COVER SHALL BE SECURED WITH SNAP-SLIP FLUSH REUSABLE FASTENERS. ANGLE STOPS SHALL
- HAVE LOCK-UP LOCKING ACCESS COVERS. 6. PROVIDE TRUEBRO (WHITE) BASIN GUARD UNDERSINK PROTECTIVE ENCLOSURE.

ELECTRIC WATER HEATER SCHEDULE

			GALLON		NUMBER	RECOVERY IN GPH	ELECT.	MANUFACTURER	
MARK	LOCATION	SERVING	CAPACITY	KW	OF ELEMENTS	AT 120F RISE	V/P/H	& MODEL	NOTES
EWH-1	SEE PLANS	SEE PLANS	80	18	3	62	480/3/60	AO SMITH DVE-80-18 GOLD Xi SERIES	ALL

1. MANUFACTURER & MODEL NUMBER ARE "OR APPROVED EQUAL" 2. PROVIDE INMERSION TYPE THERMOSTAT.



11 ROOF HYDRANT DETAIL
SCALE : NOT TO SCALE



o. | REVISIONS | BY

MAY 24, 2019

GMS ARCHITECT

1150 Paredes Line Rd

Brownsville TX 78526 (956) 546-0110 fax (956) 546-0196

CESAR A. GONZALEZ 108611 5.03.2019

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Roan G Gomez, Ala IDEA EDINBURG PHASE

P5.01

REVISIONS | BY

ADDENDUM #1 5/23/19

GMS ARCHITECT

texas 78526 (956) 546-0110	115	50 paredes line rd.
(956) 546-0110		texas 78526
	(956) 546-0110 x (956) 546-0196

WITH GENERAL CONTRACTOR/CIVIL ENGINEER. DO NOT BEGIN LANDSCAPE CONSTRUCTION UNTIL ALL BOUNDARIES, EASEMENTS AND RIGHTS-OF-WAY HAVE BEEN VERIFIED IN THE FIELD. 7. LANDSCAPE CONTRACTOR SHALL STAKE OUT ALL BEDS, TREES, PALM LOCATIONS

PRIOR TO INSTALLATION FOR APPROVAL BY SSP DESIGN.

3, NOTIFY SSP DESIGN PRIOR TO BID OF ANY DISCREPANCIES IN DRAWINGS/DETAILS OR INSUFFICIENT QUANTITIES DUE TO DIFFERENCES IN PLAN AND ACTUAL FIELD CONDITIONS.

4. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL

6. LANDSCAPE CONTRACTOR SHALL VERIFY ALL PROPERTY BOUNDARIES AND LIMITS OF WORK

- S. LANDSCAPE CONTRACTOR TO COORDINATE WITH SSP DESIGN TO ENSURE PROPER PLACEMENT OF PLANT MATERIAL AND IRRIGATION EQUIPMENT.
- 9. LANDSCAPE CONTRACTOR TO INSTALL EXTRUDED CONCRETE EDGING AS SHOWN ON PLANS.
- 10. LANDSCAPE CONTRACTOR TO SUPPLY/INSTALL 36" DIA, TREE RINGS AS SHOWN ON PLANS/DETAILS. II. NOTIFY SSP DESIGN PRIOR TO PLANTING OPERATIONS FOR
- APPROVAL OF ALL PLANT MATERIAL ON SITE. ANY PLANT MATERIAL NOT APPROVED BY SSP DESIGN WILL BE SUBJECT TO REJECTION.

LASER GRADING, PLANTING, STAKING, MAINTENANCE, AND GUARANTEE.

EXISTING UTILITIES. SPOTTING OF ALL UTILITIES IS REQUIRED.

FOR VERIFICATION/INTERPRETATION OF PLANS.

IRRIGATOR ONLY.

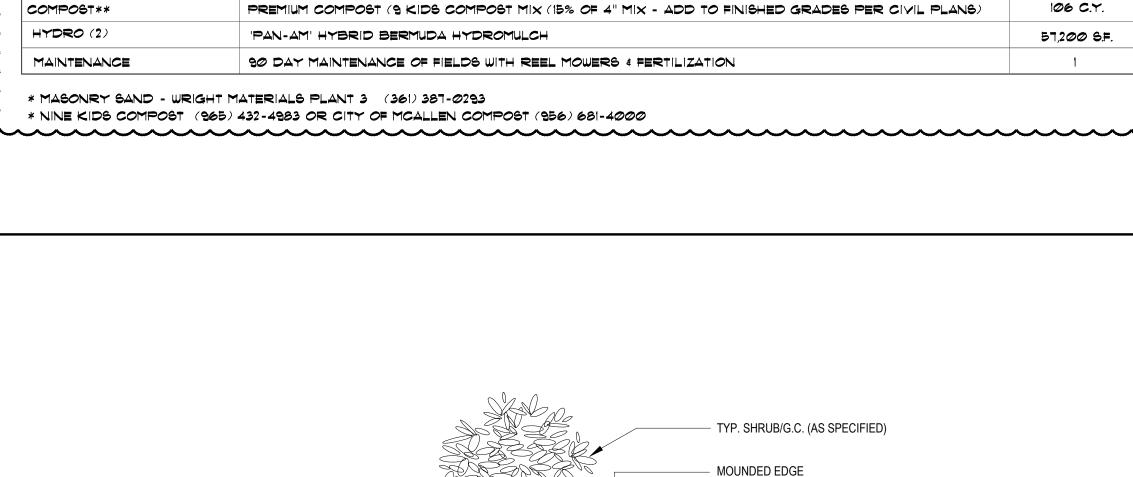
5. NOTIFY AND MEET WITH SSP DESIGN PRIOR TO ANY CONSTRUCTION

LANDSCAPE CONSTRUCTION NOTES

- 12. IRRIGATION CONTRACTOR SHALL SUPPLY AND INSTALL COMPLETE AUTOMATIC IRRIGATION SYSTEM MAINLINE, SLEEVES, LATERALS, AND POP-UP HEADS, AND ADJUSTMENTS, TO COVER ALL LANDSCAPE areas as per plans/details. Irrigation system shall be installed by a texas licensed
- 13. LANDSCAPE CONTRACTOR SHALL REMOVE ALL EXISTING GRASS/WEEDS BY HERBICIDING PRIOR TO BED PREP AND SOIL REPLACEMENT.
- 14. LANDSCAPE CONTRACTOR SHALL REMOVE 12" OF EXST'G SOIL WITHIN ALL BED AREAS AND REPLACE WITH IRVORTED TOP SOIL/PREMIUM CORVOST MIX.
- 15. LANDSCAPE CONTRACTOR SHALL CONSTRUCT 6"x36" WATERING BASINS AROUND ALL TREES/PALMS WITH A MIN. 2" LAYER OF CYPRESS MULCH.
- 16. LANDSCAPE CONTRACTOR SHALL LOOSEN / GRADE ALL LAWN AREAS PRIOR TO HYDRO-MULCHING/SODDING TO ENSURE PROPER DRAINAGE AND UNIFORM SURFACE.
- 17. LANDSCAPE CONTRACTOR SHALL REMOVE ALL EXISTING GRASS AND WEEDS BY HERBICIDING, DISKING, FLOATING AND LIGHT GRADING OF ENTIRE PROJECT AREA PRIOR TO SODDING/HYDROMULCHING.
- 18. LANDSCAPE CONTRACTOR SHALL ESTABLISH AND MAINTAIN ALL PLANT MATERIAL
- FOR 90 DAYS AFTER 'SUBSTANTIAL CORVLETION' AND SHALL GUARANTEE ALL TREES/PALMS FOR A PERIOD OF ONE YEAR.
- 19. IRRIGATION CONTRACTOR SHALL GUARANTEE ALL SYSTEM CORVONENTS FOR A PERIOD OF ONE YEAR.
- 20. SEE SPECIFICATIONS FOR FURTHER INSTRUCTIONS/REQUIREMENTS.

1. S = SPACING, (REFER PLANT LIST FOR AMOUNT OF SPACING.)

2. USE SPACING LAYOUT FOR SHRUBS, GROUNDCOVERS AND ANNUALS.



MATERIAL SCHEDULE

SCREENED TOP SOIL | 8" FOR ALL PLANTING BEDS

GUYING / STAKING ALL TREES/PALMS PER DETAILS

MATERIAL SCHEDULE - SOCCER FIELD

PREMIUM COMPOST | 2" LAYER PREMIUM COMPOST (EARTHWISE ORGANICS MIX)

ALL PLANT MATERIAL PER DETAILS

PER DETAILS / AS SPECIFIED

NOTE: CONTRACTORS MUST REVIEW TECHNICAL SPECIFICATIONS FOR

ADDITIONAL PRODUCT INFORMATION AND PROJECT REQUIREMENTS.

all planting bed areas as specified

all planting bed areas as specified

MULCH (HARDWOOD) | 2" MIN. FOR ALL PLANTING BEDS AND WATERING BASINS (TEXAS NATIVES HARDWOOD) | 404 (2 CF BAGS)

4" DEPTH COMPACTED DECOMPOSED GRANITE (1/4" MINUS FINES) PER PLANS/DETAILS

Screened topsoil for soccer fields (35% of 4" Mix - add to finished grades per civil plans)

MASONRY SAND FOR SOCCER FIELDS (50% OF 4" MIX - ADD TO FINISHED GRADES PER CIVIL PLANS)

5" BLACK ANODIZED ALUMINUM EDGE 'DREAM&CAPE&' PER PLAN&/DETAIL

CLEAR ALL DEBRIS FROM TOP LAYER OF EXISTING SITE (BY SITE CONTRACTOR)

(36" Dia.) 4x6" extruded colored concrete edging per plans/details

4 x 6" EXTRUDED COLORED CONCRETE EDGING PER PLANS/DETAILS

TREE TRIMMING/PRUNING BY ISA CERTIFIED ARBORIST

IRRIGATION SYSTEM COMPLETE AUTOMATIC IRRIGATION SYSTEM/ADJUSTMENTS BY LICENSED CONTR.

TREE PROTECTION FENCING AS PER PLANS/DETAILS

ALL LANDSCAPE AREAS (ROUNDUP OR APPROVED EQUAL

grading & laser leveling of all site per plans

DESCRIPTION

FERTILIZER

PLANTING TABLETS

PRE-EMERGENT

ALUMINUM EDGE

CONCRETE EDGE

TREE TRIM/PRUNE

TREE PROTECTION

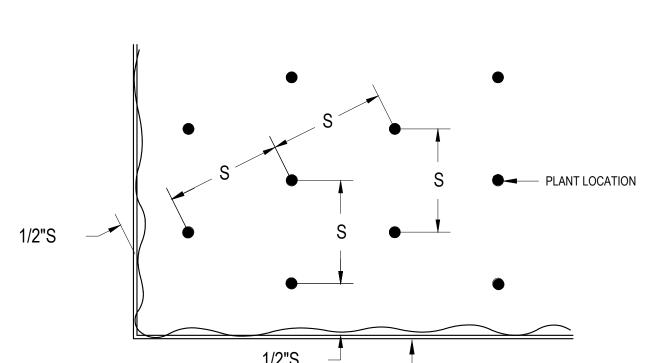
tree rings

DESCRIPTION

HERBICIDE

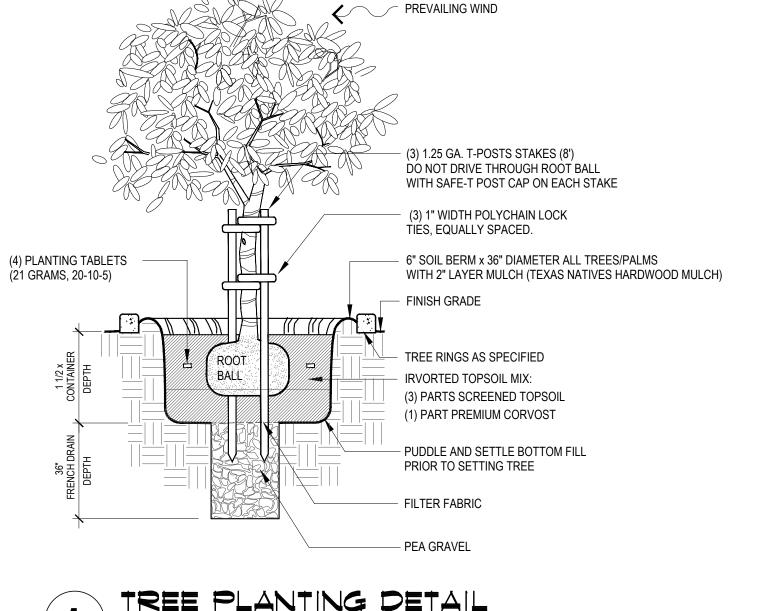
CLEAR/GRUB/SITE PREP

SCREENED TOP SOIL



1/2"S EDGE OF PAVEMENT OR WALL





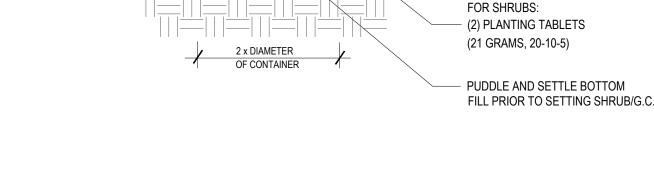


GROUNDCOVER OR

7/7/4 10" LAYER TOP SOIL/

PREMIUM COMPOST

UNDISTURBED SOIL

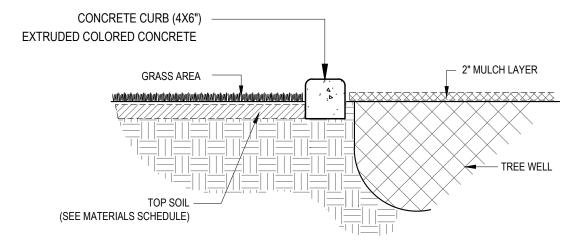


SHRUB/G.C. PLANTING DETAIL

- FINISH GRADE

- IRVORTED TOP SOIL MIX:

(3) PARTS SCREENED TOPSOIL (1) PART PREMIUM CORVOST



ERADICATED

QUANTITY

25 C.Y.

110 C.Y.

4,490 S.F.

4,490 S.F.

-

-

2,700 S.F.

60 L.F.

500 L.F.

19

-

QUANTITY

57,200 S.F.

57,200 S.F.

57,200 S.F.

247 C.Y.

353 C.Y.

- I. APPLY HERBICIDE/ROUNDUP TO ENTIRE FIELD AREA UNTIL ALL VEGETATED MATTER IS
- 2. CLEAR AND GRUB (REMOVE ALL DEBRIS) FROM FIELD AREA

SPORTS FIELD NOTES

- 3. RIP/TILL SOIL WITH AN AGRICULTURAL CULTIVATOR TO A DEPTH OF 3" ON FIELD 4. ROUGH GRADE FIELDS TO PREPARE FOR SAND/TOPSOIL/CORVOST
- 5. APPLY SAND/TOPSOIL/CORVOST MIX TO AND FINE GRADE TO FINISHED ELEVATIONS 6. CONTRACTOR TO GRADE FIELD WITH SPECIFIED CROWN/SLOPES UTILIZING FULLY
- AUTOMATED CORVUTERIZED DUAL GPS SYSTEM WITH LASER AUGMENTATION TO ACHIEVE GRADES WITHIN 1/4" TOLERANCE, FIELD MUST DRAIN SMOOTHLY WITH NO BIRD BATHS OR LOW SPOTS
- I. INSTALL IRRIGATION PER PLANS/SPECS. THOROUGHLY WATER IN WITH MULTIPLE WATERINGS 8. FIELD DRAINAGE WILL BE TESTED AND REVIEWED BY SSP PRIOR TO SOD OR HYDORMULCH
- 9. INSTALL SOD ROLLS OR HYDROMULCH AS PER PLANS AND SPECIFICATIONS 10. ROLL FIELDS WITH 2 TON MECHANICAL ROLLER/VIBRATOR. TOP DRESS WITH CLEAN SAND
- ALL LOW SPOTS OR DIVOTS
- II. MONITOR WATERING FOR CONTINUOUS MOISTURE ON HYDROMULCH UNTIL FULL GERMINATION. 12. COMMENCE MOWING USING A REEL TYPE MOWER ONLY. MOWING SHALL BE AT
- LEAST ONCE PER WEEK AND MUST BE REVIEWED, CHECKED AND APPROVED BY SSP ON OR ABOUT 45 DAYS AFTER INSTALLATION/GERMINATION, FERTILIZE WITH HJ 25-0-0 WITH WOLFTRAX OR APPROVED EQUAL AT MANUFACTURERS RATES



CONCRETE CURB (4X6") -

EXTRUDED COLORED CONCRETE

GRASS AREA

(SEE MATERIAL SCHEDULE)

PLANT SCHEDULE

MED CHAMAEROPS HUMILIS

SABAL TEXANA

COMMON NAME

LIVE OAK

MED, FAN PALM (TRIPLE)

CEDAR ELM (CONT. GROWN)

HONEY MESQUITE (RELOCATED)

LIVE OAK (RELOCATED)

WILD OLIVE (RELOCATED)

MEXICAN SYCAMORE

PRIDE OF BARBADOS

white African iris

LIRIOPE 'MAJESTIC'

GOLDEN THYRALLIS

texas frog fruit

ORANGE ZEXMENIA

NOTE: CONTAINER GROWN MATERIAL SHALL BE GLEN FLORA FARMS OR APPROVED EQUAL.

PURPLE TRAILING LANTANA

1 CERTIFIED '419' HYBRID BERMUDA SOD

COMMON BERMUDA HYDROMULCH

asian jasmine

CHASTE TREE

TEXAS SABAL PALM

TYPE

B/B

B/B

24" BOX

15 GAL

5 GAL

3 GAL

3 GAL

3 GAL

QTS.

1 GAL

SIZE

72" TRUNK

6-8' TRUNK

2-3" CAL. 10' H × 6' W

3-4" CAL. 15' HT × 8'W

3" CAL. - 10'H × 6'W

6' HT. × 5' W (MULTI)

36"HT-BUSHY

18"HT-BUSHY

18"HT-BUSHY

18"HT-BUSHY

12"HT-BUSHY

12"HT-BUSHY

SEE SCHEDULE SHEET LI.01

SEE SCHEDULE SHEET LI.ØI

SEE SCHEDULE SHEET LI.01 A.S.

SPACING QTY

A.S. 2

A.S.

A.S.

A.S.

A.S.

A.S. 2

A.S. 30

A.S. 31

A.S. 120

12" O.C. 185

12" O.C. 720

18" O.C. 280

12" O.C. 275

3,950 S.Y.

31,600 S.F.

CODE BOTANICAL NAME

PALMS

TREES

CEDR | ULMUS CRASSIFOLIA

LIVE QUERCUS VIRGINIANA

LIVE(R) QUERCUS VIRGINIANA

SYCA PLATANUS MEXICANA

VITEX AGNUS-CASTUS

IRIS DIETES IRIDIOIDES

THYR GALPHIMIA GLAUCA

GROUND COVERS

TRACH. ASIATICUM

WEDELIA TEXANA

SOD CYNODON DACTYLON

HYDRO CYNODON DACTYLON

LANTANA MONTEVIDENSIS

LIRIOPE MUSCARI

FROG PHYLA INCISA

GRASS

CAES CAESALPINIA PULCHERRIMA

OLIV (R) CORDIA BOISSIERI

SHRUBS

MESQ PROSOPIS GLANDULOSA

CONCRETE EDGE DETAIL

1. CONCRETE CURBING TO HAVE 1 1/2" DEEP CONTRACTION JOINTS @ 5'-0" SPACING.

2. CONCRTE CURBING TO HAVE TAPERED DRAINAGE POINTS AT 10' O.C

4. USE HALF-INCH POLYPROPYLENE FIBER REINFORCEMENT.

6. EQUAL TO 'CURB APPEAL' EDGING (956-867-8350).

3 2500-3000 PSI COMPRESSIVE STRENGTH 490 PSI FLEXURAL STRENGT

____ 2" BELOW CURB

FOR MULCH LAYER

5. NATURAL FINISH AND COLOR.

NOTES: 1. CONCRETE CURBING TO HAVE 1 1/2" DEEP CONTRACTION JOINTS @ 5'-0" SPACING. 2. CONCRTE CURBING TO HAVE TAPERED DRAINAGE POINTS AT 10' O.C. 3. 2500-3000 PSI CORVRESSIVE STRENGTH, 490 PSI FLEXURAL STRENGTH. 4. USE HALF-INCH POLYPROPYLENE FIBER REINFORCEMENT. 5. NATURAL FINISH AND TEXAS BUFF COLOR.



6. EQUAL TO 'CURB APPEAL' EDGING (956-867-8350).

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