June 8, 2018
IDEA PUBLIC SCHOOLS – IDEA South McAllen Phase I

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



ADDENDUM NO. 4

A. PURPOSE AND INTENT
This addendum is issued for the purpose of modifying the plans and specifications for the IDEA PUBLIC SCHOOLS – IDEA South McAllen Phase I

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. CLARIFICATIONS:

1. N/A

II. SPECIFICATIONS:

1. Section 05400 – Cold-Formed Metal Framing
   Subject to compliance with this section, *CEMCO; Cold-Formed Structural Steel Framing systems* products shall be an approved manufacturer and product.
2. Section 06640 – Plastic (FRP) Paneling
   ADD Section 06640 Plastic (FRP) Paneling included in this addendum.
3. Section 08800 – Glass and Glazing
   Subject to compliance with this section, *AGC Glass North America Energy Select 28* shall be an approved manufacturer and product.
4. Section 09250 – Gypsum Drywall
   Interior Metal Stud Framing:
   Subject to compliance with this section, *CEMCO;Non-Structural Cold-Formed Metal Framing* products shall be an approved manufacturer and product.

III. PLANS:

1. Sheet A1.01 Campus Site Plan (Dimensions) – Replace Sheet A1.01 Campus Site Plan previously issued with Sheet A1.01 included in this addendum.
    a. ADD additional parking and associated drives on North side of school.
    b. REVISE perimeter fencing and slide entrance gate locations. Provide additional gates along sidewalks.
    c. REMOVE parking spaces at front of school.
    d. ADD additional parking area to South Parking lot.
    e. ADD additional concrete walks to North Parking Area.

2. Sheet A1.02 Campus Site Plan (Key Notes) – Replace Sheet A1.02 Campus Site Plan previously issued with Sheet A1.02 included in this addendum.
    a. REVISE key note locations at all revised areas noted in Item 1 above.

3. Sheet A1.03 Campus Site Plan Details – Replace Sheet A1.03 Campus Site Plan previously issued with Sheet A1.03 included in this addendum.
    a. REVISE enlarged site ramp details and Accessible Parking Areas.

4. Sheet A2.02 First Floor Plan – Replace Sheet A2.02 First Floor Plan previously issued with Sheet A2.02 included in this addendum.
    a. REVISE Finish Schedule to add FRP Panels wall finish to Kitchen.

Civil Addendum Items: See Attached Information (11 Pages)
MEP Addendum Items: See Attached Information (9 Pages)

End of Addendum 4

Section 06640 - Plastic (FRP) Paneling

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Glass-fiber reinforced plastic (FRP) wall paneling, trim accessories, and supplementary items necessary for installation.

1.2 SUBMITTALS

A. Product Data: Manufacturer’s technical literature for each product and system indicated.

1. Include manufacturer's specifications for materials, finishes, construction details, installation instructions, and recommendations for maintenance.

B. Samples for Initial Selection: Manufacturer's color charts consisting of actual units or sections of units showing the full range of colors, textures, and patterns available.

C. Samples for Verification Purposes: Sets for each color, texture, and pattern specified, showing the full range of variations expected in these characteristics, in manufacturer's standard sizes.

D. Product Schedule: Use same designations indicated on the Finish Schedule and Drawings.

E. Product Test Reports: Written reports based on evaluation of comprehensive tests performed by qualified testing agency indicating that each product complies with requirements.

F. Manufacturer’s Project Acceptance Document: Certification by the manufacturer that its product(s) are approved, acceptable, suitable for use in specific locations, for specific details, and for applications indicated, specified, or required.

G. Qualification Data: For installer.

1. For firms and persons specified in "Quality Assurance" to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of Architects and Owners, and other information specified.

H. Maintenance Data: To include in maintenance manuals.

1.3 QUALITY ASSURANCE

A. Installer Qualifications:

1. Experience: Installer with not less than 2 years experience in performing specified Work similar to scope of this Project, with a record of successful in-service performance and completion of projects for a period of not less than 2 years, and with sufficient production capability, facilities, and personnel to produce required Work.

2. Supervision: Installer shall maintain a competent supervisor who is at Project during times specified Work is in progress, and, who is experienced in installing systems similar to type and scope required for Project.
3. Manufacturer Acceptance: Installer shall be certified, approved, licensed, or acceptable to manufacturer to install products.

B. Surface-Burning Characteristics: As determined by testing identical products according to ASTM E 84 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

1. Flame-Spread Index: 25 or less.
2. Smoke-Developed Index: 450 or less.
3. Testing Agency: Acceptable to authorities having jurisdiction.

1.4 PROJECT CONDITIONS

A. Environmental Limitations: Do not deliver or install plastic paneling until spaces are enclosed and weathertight and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.

1.5 COORDINATION

A. Coordinate installation of products and systems with interfacing and adjoining construction to provide a successful installation without failure.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers: Subject to compliance with requirements of Contract Documents as judged by the Architect, provide product by one of manufacturers listed. If not listed, submit as substitution according to the Conditions of the Contract and Division 01 Section “Substitution Procedures”.

1. Marlite (Basis of Design)
2. Crane Composites, Inc. (Kemlite).
3. Nudo Products, Inc.

B. Basis of Design (Product Standard): Contract Documents are based on products and systems specified to establish a standard of quality.

2.2 MATERIALS, GENERAL

A. Single Source Responsibility: Furnish each type of product from single manufacturer. Provide secondary materials only as recommended by manufacturer of primary materials.

2.3 PLASTIC (FRP) SHEET PANELING

A. General: Gelcoat-finished, glass-fiber reinforced plastic panels complying with ASTM D 5319.

1. Nominal Thickness: Not less than 0.09 in (2.2 mm).
2. Surface Finish: Molded pebble texture.
3. Color: White (Provide Sample)

2.4 ACCESSORIES

A. Trim Accessories: Manufacturer's standard vinyl extrusions designed to retain and cover edges of panels. Provide division bars, inside corners, outside corners, and caps as needed to conceal edges.

1. Color: Match panels.

B. Exposed Fasteners: Nylon drive rivets as recommended by panel manufacturer.

C. Concealed Mounting Splines: Continuous, H-shaped aluminum extrusions designed to fit into grooves routed in edges of factory-laminated panels and to be fastened to substrate.

D. Adhesive: As recommended by plastic paneling manufacturer.

1. VOC Content: 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

E. Sealant: Sealant as recommended by plastic paneling manufacturer and complying with requirements in Division 07 Section "Joint Sealants".

PART 3 - EXECUTION

3.1 EXAMINATION

A. Acceptance of Surfaces and Conditions: Examine substrates to receive products and systems and associated work for compliance with requirements and other conditions affecting performance. Proceed only when unsatisfactory conditions have been corrected in a manner complying with Contract Documents. Starting work within a particular area will be construed as acceptance of surface conditions.

3.2 INSTALLATION, GENERAL

A. Installation Quality Standards: In addition to standards listed elsewhere, perform Work according to following, unless otherwise specified:

1. Respective manufacturer’s written installation instructions.
2. Accepted submittals.
3. Contract Documents.

3.3 PREPARATION

A. General: Comply with manufacturer’s instructions, recommendations, and specifications for cleaning and surface preparation. Surfaces shall have no defects, contaminants, or errors which would result in poor or potentially defective installation or would cause latent defects in Work.

B. Clean substrates of substances that could impair bond of adhesive, including oil, grease, dirt, and dust.

C. Condition panels by unpacking and placing in installation space before installation according to manufacturer's written recommendations.

D. Lay out paneling before installing. Locate panel so that trimmed panels at corners are not less than 12 in (300 mm) wide.

1. Mark plumb lines on substrate at trim accessory locations for accurate installation.
2. Locate trim accessories to allow clearance at panel edges according to manufacturer's written instructions.

3.4 INSTALLATION

A. Install plastic paneling according to manufacturer's written instructions.

B. Install panels in a full spread of adhesive.

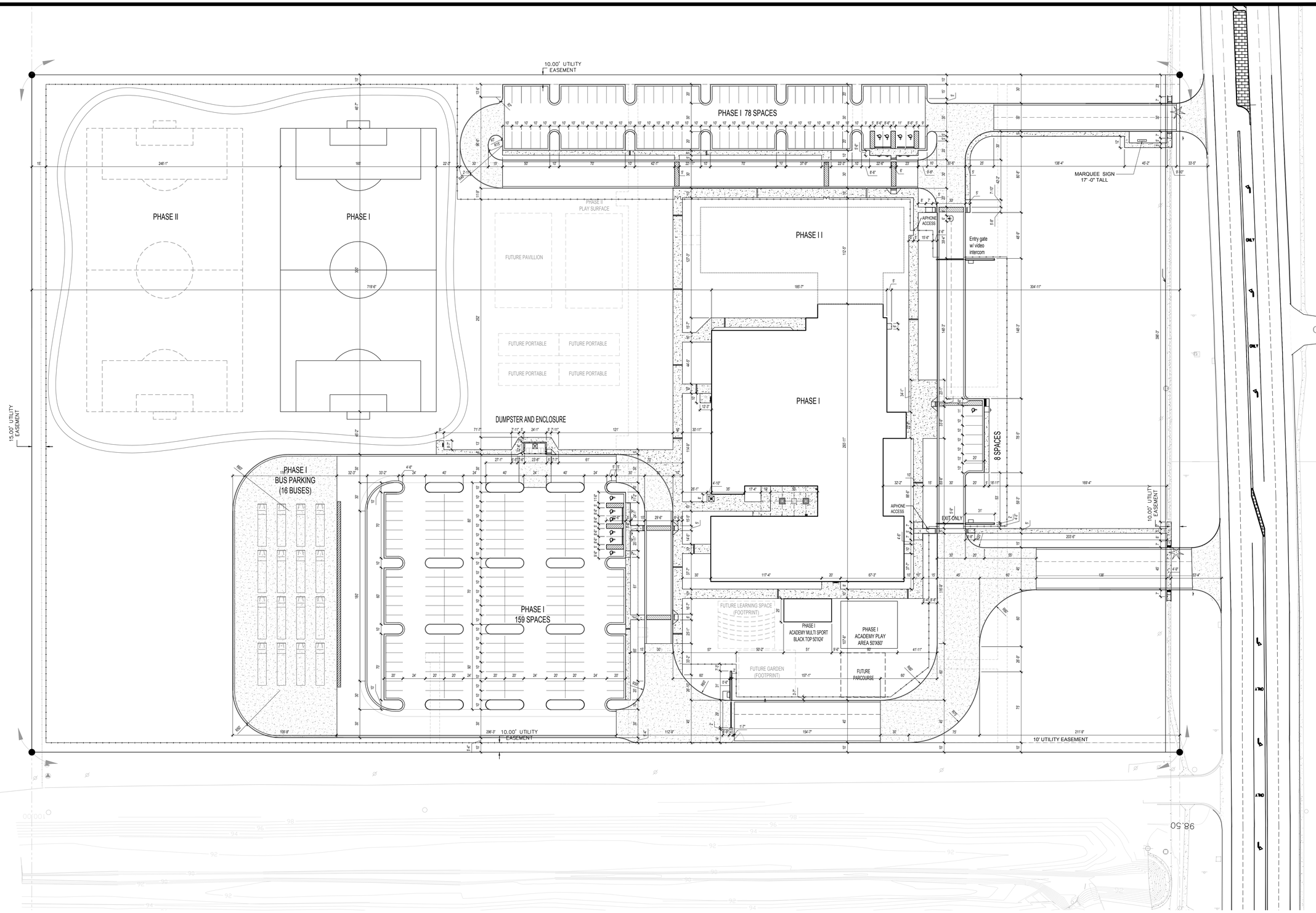
C. Install trim accessories with adhesive.

D. Fill grooves in trim accessories with sealant before installing panels and bed inside corner trim in a bead of sealant.

E. Maintain uniform space between panels and wall fixtures. Fill space with sealant.

F. Remove excess sealant and smears as paneling is installed. Clean with solvent recommended by sealant manufacturer and then wipe with clean dry cloths until no residue remains.

END OF SECTION



01 CAMPUS SITE PLAN

TRUE NORTH PLAN NORTH

SCALE: 1" = 40'-0"

REFER TO SHEET A1.02 FOR SITE PLAN KEYED NOTES.

SITE NOTES:

1.) FINISH GRADE TO BE 6" BELOW FINISH FLOOR ELEVATION SLOPE AWAY FROM ALL IMPROVEMENTS AT A RATE OF 1/4" PER FOOT FOR THE FIRST 10'-0"; THEN AT A RATE OF 1/8" PER FOOT FOR THE NEXT 20'-0"

2.) SIDE WALK SLOPE IS NOT TO EXCEED 1:20 WITH A CROSS SLOPE OF 1:50 AT ANY INSTANCE.

3.) REFER TO CIVIL, LANDSCAPE AND MECHANICAL DRAWINGS FOR ADDITIONAL WORK TO BE PERFORMED UNDER THIS CONTRACT.

4.) PLAY FIELDS, TRAFFIC STRIPPING & TRAFFIC SIGNS NOT SHOWN FOR CLARITY. REFER TO ARCHITECTURAL SHEETS A1.09 THRU A1.13 FOR NOTATION AND REQUIREMENTS

5.) AT ALL ENTRIES OF NEW BUILDINGS WARP CONCRETE SIDEWALKS SO AS TO PROVIDE A FLAT SURFACE WITH FINISHED FLOOR

No.	REVISIONS	BY
1	ADDENDUM #4	RB,JA

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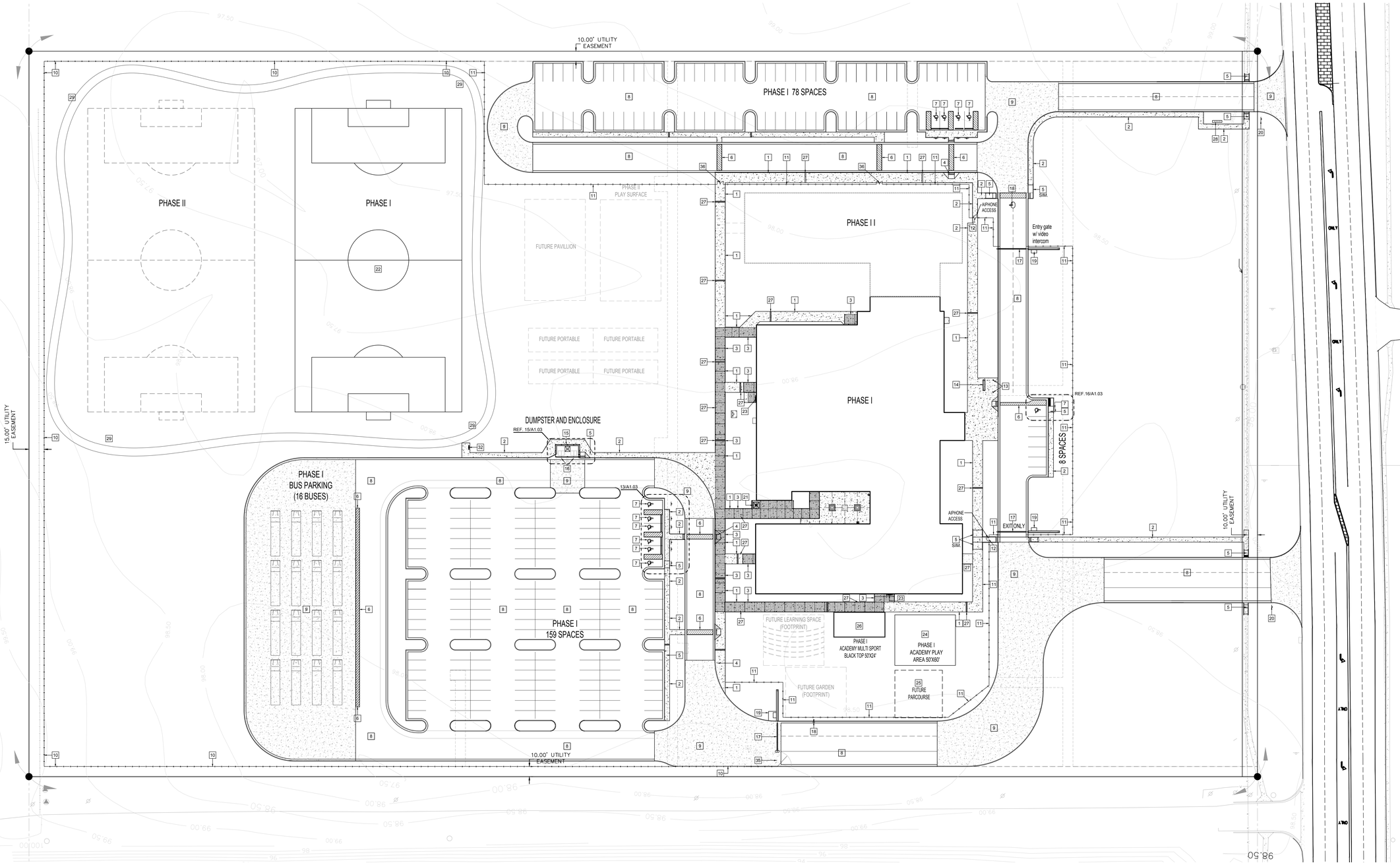
IDEA-SOUTH MCALLEN CAMPUS
PHASE I
MCALLEN, TEXAS

IDEA Public Schools

REGISTERED ARCHITECT DAVID A. MONREAL 79556 STATE OF TEXAS
5/11/2018

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Architects-Planners
Interior Designers

Date: May 11, 2018
Scale: As Noted
Project Architect: David Monreal, AIA
Drawn By: JA, RB
Job No. IDEA South McAllen Phase I
Sheet: A1.01



01 CAMPUS SITE PLAN

SCALE: 1" = 40'-0"

TRUE NORTH PLAN NORTH

SITE PLAN KEYED NOTES

1. 10'-0" WIDE CONCRETE WALK REFER TO DTL'S 01,02,03,04/A1.03
2. 5'-0" WIDE CONCRETE WALK REFER TO DTL'S 01,02,04/A1.03
3. 10'-0" WIDE PREFINISHED METAL WALKWAY CANOPIES. REFER TO SHEET 01/A1.04
4. ACCESSIBLE CURB RAMPS WITH DETECTABLE WARNING STRIPS. REFER TO 13/A1.03.
5. ACCESSIBLE CURB RAMPS WITH DETECTABLE WARNING STRIPS. REFER TO 19/A1.03 TYPICAL
6. TRAFFIC STRIPING FOR PEDESTRIAN CROSSWALKS, LOADING ZONE AND TRAFFIC CONTROL.
7. HANDICAP ACCESSIBLE PARKING SPACES WITH POLE MOUNTED HANDICAP SIGN. REFER TO 12/A1.03.
8. ASPHALT PAVING WITH CONCRETE CURB AND GUTTER. REFER TO CIVIL FOR ADDITIONAL INFORMATION.
9. CONCRETE PAVING WITH CONCRETE CURB AND GUTTER. REFER TO CIVIL FOR ADDITIONAL INFORMATION.
10. 7'-0" VINYL COATED CHAIN LINK FENCE REF. 08/A1.03
11. 7'-0" HIGH ALUMINUM FENCING AS SPECIFIED. REFER TO 06/A1.03
12. 3'-0" WIDE ALUMINUM ENTRY SWING GATES WITH HYDRAULIC HINGES AND KEYPAD LOCKSET AS SPECIFIED. PROVIDE ELECTRIC STRIKE AND PANIC HARDWARE. REFER TO 05/A1.03.
13. (2) 30'-0" FLAGPOLES (13/A1.03) AS SPECIFIED. REFER TO DTL 11/A1.03
14. HD GALV LOOP 11- BIKE RACK SET IN 18" DEEP CONCRETE FOOTINGS ON 10'-0" X 20'-0" CONCRETE PAD.
15. 6'-0" HIGH PAINTED CEDAR FENCING AS SPECIFIED.
16. 6'-0" TALL CEDAR FENCING WITH DOUBLE SWINGING GATE REFER TO 09/A1.02
17. ALUMINUM EXIT SLIDING GATE AS SPECIFIED. WITH STEEL ANGLE GUIDE SET IN 12" WIDE CONCRETE APRON. REFER TO 20,21/A1.03
18. PEDESTAL MOUNTED KEYPAD CONTROL AND CALL SWITCH AS SPECIFIED.
19. MOTORIZED SLIDING GATE OPERATORS AS SPECIFIED.
20. POLE MOUNTED TRAFFIC SIGN - "STOP SIGN" REFER TO 12/A1.03.
21. CAN WASH AREA WITH METAL CANOPY 01/A1.04. PROVIDE CONC. CATCH BASIN GRATE COVER SET ONTO R-6670-D SERIES SQ. NEENAH FOUNDRY CO.. REFER TO MEP FOR PLUMBING REQUIREMENTS
22. PRACTICE SOCCER FIELD WITH GOALS AS SPECIFIED.
23. EXTERIOR DRINKING FOUNTAIN AS SPECIFIED. REFER TO MECHANICAL.
24. PLAYGROUND AREA BY OWNER
25. FUTURE PAR COURSE BY OWNER
26. 50'X24' ASPHALT MULTI SPORT AREA.
27. METAL TRENCH COVERS REFER TO DTL. 03/A1.03 FOR RECOMMENDED LOCATIONS REFER TO CIVIL DWGS (1'-0" WIDE)
28. BUILDING MARQUEE SIGN REF. 22,23/A1.03
29. WALKING TRAIL TO BE BUILT IN PHASE I
30. 5' WIDE CONC WALK AND RAMPS REF. 24/A1.03
31. DRAIN COVER EQUAL TO NEENAHR-6660-GP
32. BOTTLE FILLING STATION TRI-LEVEL PEDESTAL MODEL # LK4430BF1M
33. (6) 6' BENCHES MODEL #B6PERFSM BY T.F. HARPER & ASSOCIATES LP PROVIDED BY OWNER INSTALLED BY CONTRACTOR
34. (2) 32 GAL. TRASH RECEPT. MODEL #TR32PERF BY T.F. HARPER & ASSOCIATES LP GROUND MOUNTED PROVIDED BY OWNER INSTALLED BY CONTRACTOR
35. 10'-0" WIDE ALUMINUM EXIT SWING GATE WITH HYDRAULIC HINGES AS SPECIFIED. REFER TO 05/A1.03. (SIMILAR)
36. 3'-0" WIDE DOUBLE ALUMINUM ENTRY SWING GATES WITH AND KEYPAD LOCKSET AND PANIC HARDWARE AS SPECIFIED. REFER TO 05/A1.03.

No.	REVISIONS	BY

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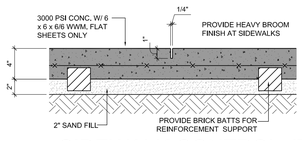
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PHASE I
MCALLEN, TEXAS

IDEA Public Schools

REGISTERED ARCHITECT DAVID A. MONREAL 79556 STATE OF TEXAS
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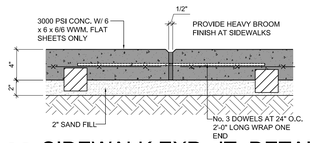
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Interior Designers

Date: May 11, 2018
Scale: As Noted
Project Architect: David Monreal, AIA
Drawn By: JA, RB
Job No.: IDEA South McAllen Phase I
Sheet: A1.02



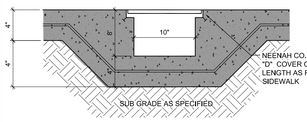
01 SIDEWALK CONTROL JT.

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



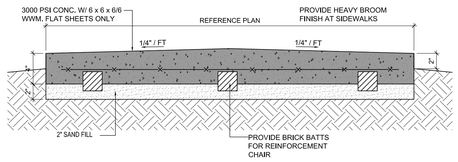
02 SIDEWALK EXP. JT. DETAIL

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



03 TRENCH DETAIL

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

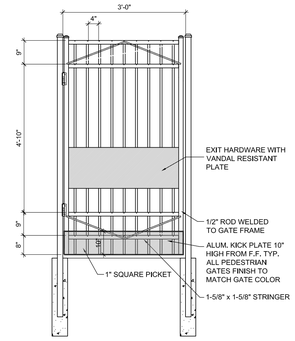


04 SIDEWALK DETAIL

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

1.) CONTRACTOR TO VERIFY ALL BUILDING ROOF DRAINS & DOWN SPOUTS THAT WILL SPILL ONTO A SIDEWALK AND PROVIDE A TRENCH GUTTER AT THAT LOCATION TO ALLOW FOR RAIN WATER TO DRAIN THRU GUTTER AND NOT OVER SIDEWALK (WHICH COULD CAUSE A TRIPPING HAZARD). CONTRACTOR TO VERIFY TRENCH GUTTERS NEEDED PRIOR TO ANY POURING OF SIDEWALKS AROUND PERIMETER OF BUILDING. TYPICAL AT ALL BUILDINGS.

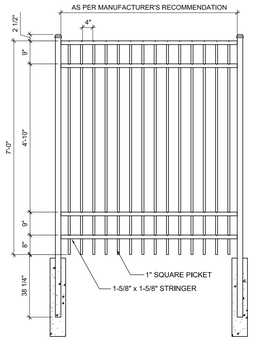
2.) REFER TO CIVIL DRAWINGS FOR ALL OTHER LOCATIONS OF TRENCH GUTTERS



05 GATE ELEVATION

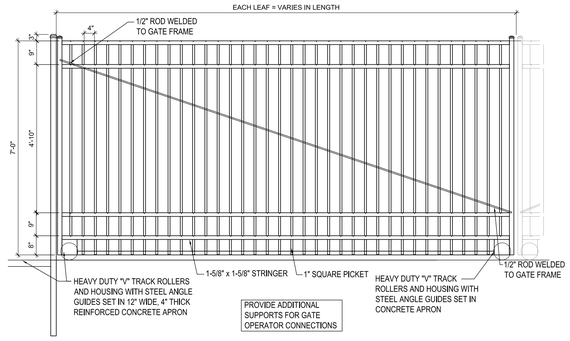
SCALE: 1/2"=1'-0"

NOTE: PROVIDE ALL NECCESSARY ACCESORIES FOR PROPER GATE INSTALLATION OF ALL GATE HARDWARE AND PLATES



06 FENCE ELEVATION

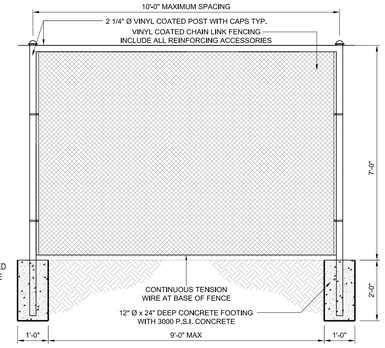
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07 SLIDING GATE ELEVATION

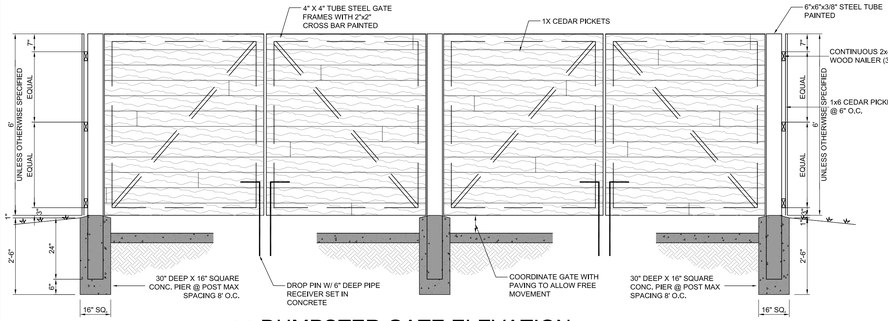
SCALE: 1/2"=1'-0"

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.



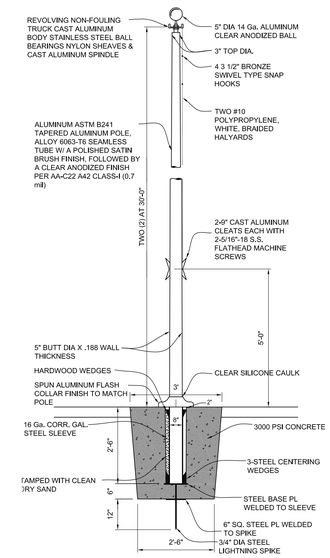
08 FENCE ELEVATION

SCALE 1/2" = 1'-0"



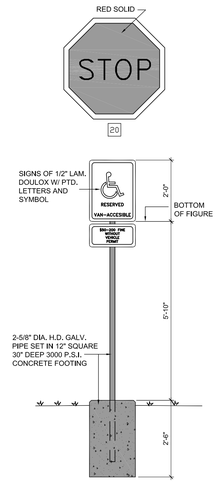
09 DUMPSTER GATE ELEVATION

SCALE: N.T.S.



11 FLAG POLE DETAIL

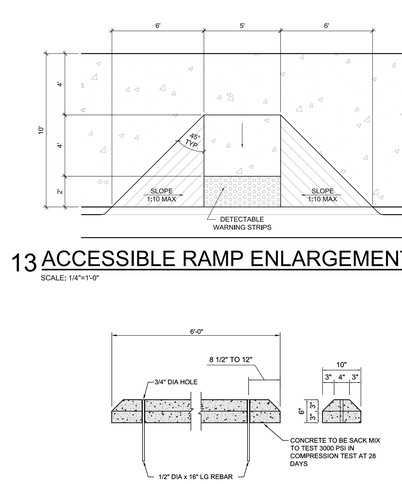
SCALE: 1/2" = 1'-0"



12 SIGN / ANCHOR DETAIL

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

REFER TO PLANS FOR LOCATIONS

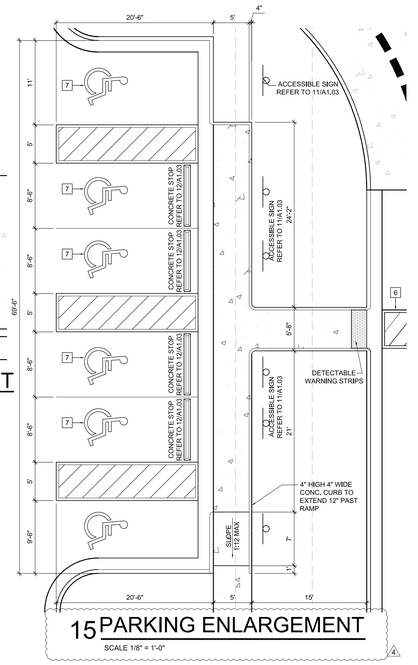


13 ACCESSIBLE RAMP ENLARGEMENT

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

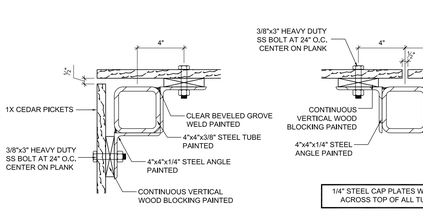
14 CONCRETE TIRE STOP

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



15 PARKING ENLARGEMENT

SCALE 1/8" = 1'-0"

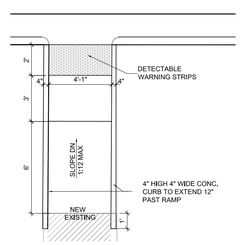


16 PARKING ENLARGEMENT

SCALE 1/8" = 1'-0"

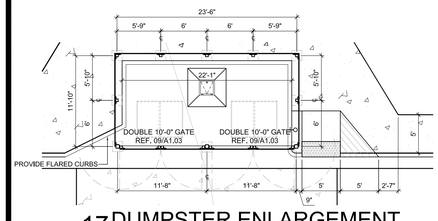
18 NOT USED

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



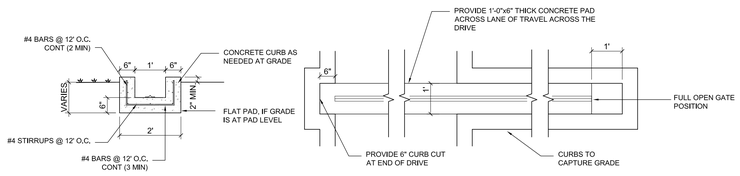
19 ACCESSIBLE RAMP ENLARGEMENT TYPICAL

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17 DUMPSTER ENLARGEMENT

SCALE 1/8" = 1'-0"

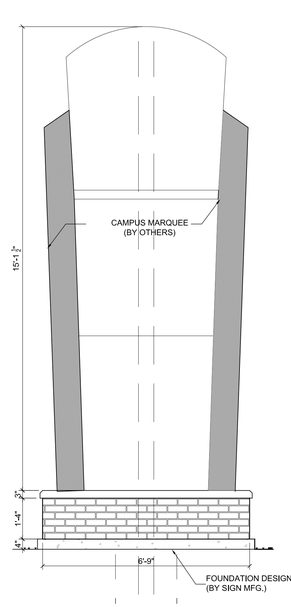


20 ROLLING GATE SECTION

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

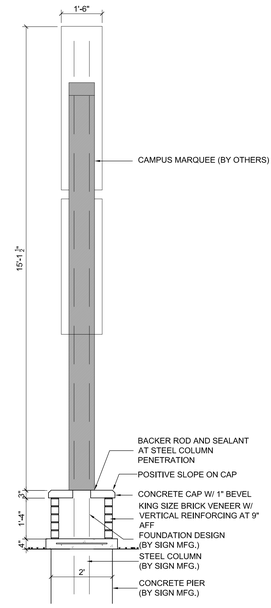
21 ROLLING GATE PAD

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



22 FRONT ELEVATION

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



23 SIDE ELEVATION

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

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IDEA-SOUTH MCALLEN CAMPUS PHASE I

MCALLEN, TEXAS

IDEA Public Schools

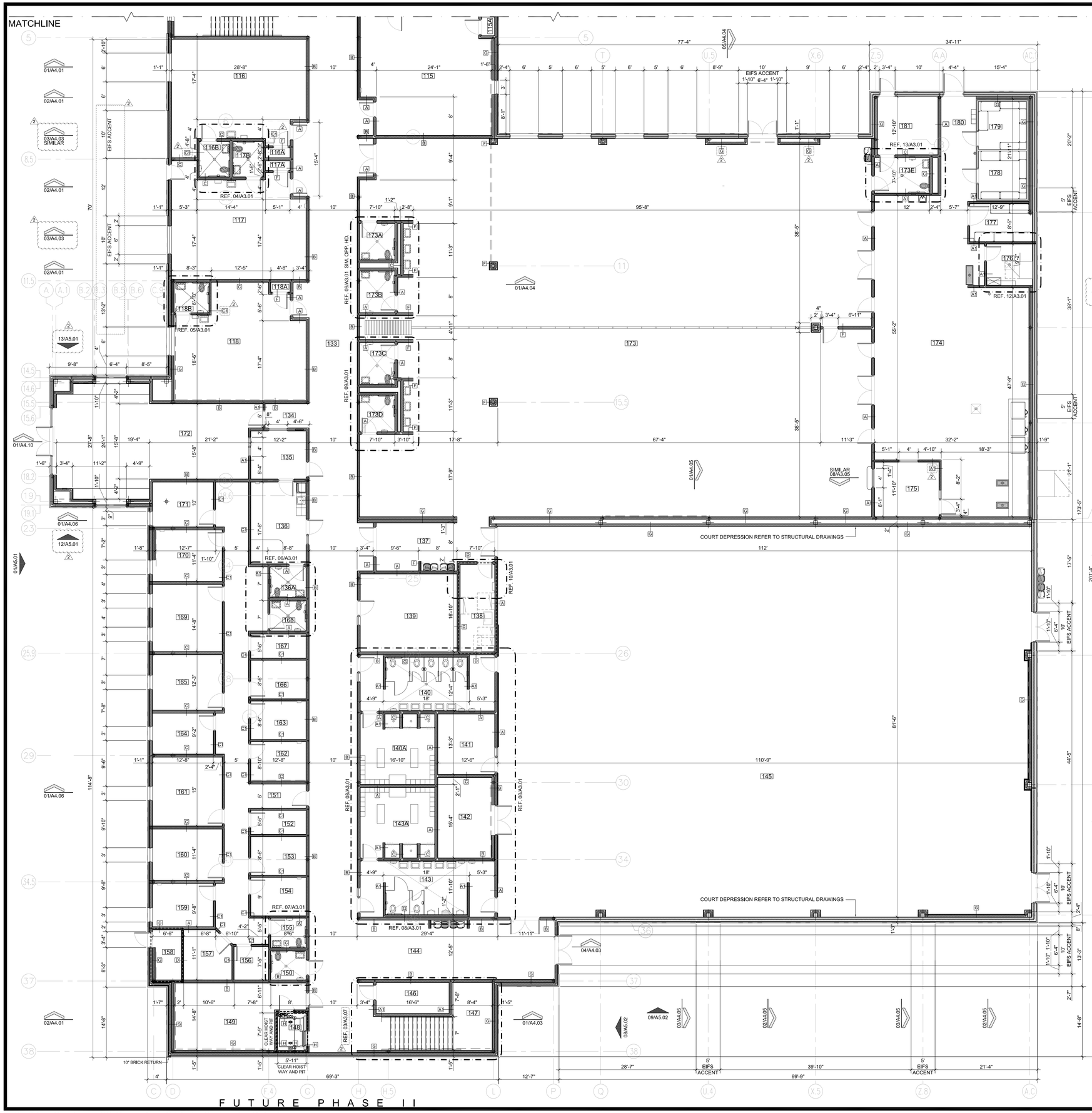
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Interior Designers

Date: May 11, 2018
Scale: As Noted
Project Architect: David Monreal, AIA
Drawn By: JA, RB
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Sheet: A1.03

MATCHLINE

MATCHLINE



N O T E:
ALL GYPSUM BOARD TO BE **PAINTED** WHETHER NOTED OR NOT

ROOM FINISH SCHEDULE

THIS SCHEDULE BASED ON PLAN NORTH ORIENTATION

ROOM	ROOM NAME	BASE	FLR.	WALLS N	WALLS S	WALLS E	WALLS W	CLG.	CLG. HEIGHTS	REMARKS
115	CLASSROOM	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-6"	
115A	STORAGE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-0"	
115B	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC III	9'-0"	6'-0" C.T. WAINSCOT
116	CLASSROOM	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-8"	
116A	STORAGE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-0"	
116B	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC III	9'-0"	6'-0" C.T. WAINSCOT
117	CLASSROOM	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-8"	
117A	STORAGE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-0"	
117B	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC III	9'-0"	6'-0" C.T. WAINSCOT
118	CLASSROOM	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-8"	
118A	STORAGE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-0"	
118B	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC III	9'-0"	6'-0" C.T. WAINSCOT
133	CORRIDOR	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	10'-4"	DUROPLEX
134	CORRIDOR	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-8"	DUROPLEX
135	RECEPTION	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-8"	
136	CLINIC	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-4"	
136A	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC III	9'-0"	6'-0" C.T. WAINSCOT
137	CORRIDOR	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	10'-4"	DUROPLEX ALT.
138	ELECTRICAL / CUSTODIAN	RUBBER	CONC.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	EXP/PTD		4" C.T. WAINSCOT @ MOP SINK
139	COPY / BREAKROOM	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-8"	
140	BOYS TOILETS	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SUS/GYP	9'-0"	6'-0" C.T. WAINSCOT
140A	BOYS DRESSING	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SUS/GYP	9'-0"	6'-0" C.T. WAINSCOT
141	OFFICE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-4"	
142	GYM STORAGE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	EXP/PTD		
143	GIRLS TOILETS	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SUS/GYP	9'-0"	6'-0" C.T. WAINSCOT
143A	GIRLS DRESSING	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SUS/GYP	9'-0"	6'-0" C.T. WAINSCOT
144	CORRIDOR	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	10'-4"	DUROPLEX
145	GYMNASIUM	RUBBER	WD.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	EXP/PTD		
146	STORAGE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	PTD		
147	STAIRWELL	RUBBER	RT	GB/PTD	GB/PTD	GB/PTD	GB/PTD			CLG. 2ND LVL R.T. TREADS
148	ELEVATOR	RUBBER	R.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD			
149	STORAGE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-8"	
150	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC III	9'-0"	6'-0" C.T. WAINSCOT
151	CORRIDOR	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-8"	
152	STORAGE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-0"	
153	OFFICE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-4"	
154	OFFICE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-4"	
155	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC III	9'-0"	6'-0" C.T. WAINSCOT
156	STORAGE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-0"	
157	MDF	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC IV	9'-4"	
158	FIRE RISER		CONC.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	EXP/PTD		
159	OFFICE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-4"	
160	OFFICE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-4"	
161	PREP. CONFERENCE RM.	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-8"	
162	OFFICE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-4"	
163	OFFICE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-4"	
164	OFFICE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-4"	
165	OFFICE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-4"	
166	OFFICE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-4"	
167	STORAGE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-0"	
168	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC III	9'-0"	6'-0" C.T. WAINSCOT
169	PRIMARY CONFERENCE RM.	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-8"	
170	OFFICE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-4"	
171	OFFICE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC II	9'-4"	
172	LOBBY	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SPACE IS CODED	VARIES	PAINT STRUCTURE BLACK
173	CAFETERIA	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	EXP/PTD	VARIES	
173A	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC III	9'-0"	6'-0" C.T. WAINSCOT
173B	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC III	9'-0"	6'-0" C.T. WAINSCOT
173C	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC III	9'-0"	6'-0" C.T. WAINSCOT
173D	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC III	9'-0"	6'-0" C.T. WAINSCOT
173E	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC III	9'-0"	6'-0" C.T. WAINSCOT
174	KITCHEN	Q.T.	Q.T.	FRP	FRP	FRP	FRP	SAC V	10'-0"	10'-0" FRP PANEL
175	OFFICE	Q.T.	Q.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC V	9'-4"	
176	CUSTODIAN	Q.T.	Q.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC III	9'-8"	4" C.T. WAINSCOT @ MOP SINK
177	DRY STORAGE	Q.T.	Q.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC V	9'-8"	
178	COOLER									RECESS FLOOR
179	FREEZER									RECESS FLOOR
180	CORRIDOR	Q.T.	Q.T.	FRP	FRP	FRP	FRP	SAC V	9'-8"	10'-0" FRP PANEL
181	OFFICE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-4"	

LEGEND

FINISH LEGEND:

CONC.	SEALED CONCRETE
C.T.	CERAMIC TILE
GB/PTD	GYPSUM BOARD PAINTED
PTD.	PAINTED
RUBBER	RUBBER BASE
V.C.T.	VINYL COMPOSITE TILE
R.T.	RADIAL TILE
Q.T.	QUARRY TILE
WD.	WOOD
EXP/PTD	EXPOSED PAINTED
SUS/GYP	SUSPENDED 1/2" MOISTURE RESISTANT GYP BOARD - PAINTED
S.A.C.	SUSPENDED ACOUSTICAL CEILING REFERENCE SPECIFICATIONS FOR TYPES

WALL HATCH LEGEND:

1 HR — INDICATES THAT THIS WALL SHALL BE FIRE RATED AND SHALL BE EXTENDED TO UNDERSIDE OF ROOF DECK.

INDICATES METAL STUD W/ GYP/BRD WALL AS REQUIRED REFERENCE INTERIOR PARTITION SECTIONS

1ST FLOOR

01 FLOOR PLAN

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

PLAN NORTH

GENERAL NOTES:

1. REFERENCE SERIES A4.07 FOR TYPICAL INTERIOR WALL SECTIONS NOTED ON THIS PLAN BY THE FOLLOWING DESIGNATION — (A)
2. PROVIDE DRYWALL CONTROL JOINTS AT ALL STRUCTURAL STEEL COLUMN CONDITIONS AND WALL OPENINGS, WHETHER NOTED OR NOT
3. PROVIDE TRANSITION STRIPS AT ALL DISSIMILAR FLOOR CONDITIONS
4. REFERENCE FIXTURE PLANS SHEET FOR FIXTURE, ACCESSORY REQUIREMENTS AND FLOOR TILE PATTERN LAYOUT
5. TYPICAL CORRIDOR WALLS TO BE EXTENDED TO UNDERSIDE OF DECK
6. REFERENCE SHEET A3.01 FOR TOILET ENLARGEMENTS
7. (2) PROVIDE HORIZONTAL MINI BLINDS AT ALL EXTERIOR WINDOWS TYPICAL (EXCEPT AT CORRIDOR AND STAIRWELL)
8. ALL EXPOSED DRYWALL CORNERS TO RECEIVE PLASTIC CORNER GUARDS, AS SPECIFIED.
9. ALL EXPOSED COLUMNS ARE TO BE FURRED WITH METAL STUDS AND DRYWALL. REFER TO 17/A3.02 FOR DETAILS.
10. PROVIDE DOUBLE 6" METAL STUD PARTITION AT ALL STRUCTURAL BRACING LOCATIONS. REFER TO 15/A3.02 FOR DETAILS AND STRUCTURAL FOR LOCATIONS.
11. REFERENCE A3.02 FOR TYPICAL PLAN DETAILS
12. PROVIDE MTL. STUD BLOCKING FOR ALL WALL MOUNTED BOARDS & ACCESSORIES.
13. PROVIDE WOOD BLOCKING AT ALL CABINETS, PROJECTOR & RAILING LOCATIONS.
14. PROVIDE SCHULTER KERDI SHOWER PANS AT ALL LOCATIONS RECEIVING CERAMIC AND QUARRY TILE FLOORING.

No.	REVISIONS	BY
2	ADDENDUM #2	JA
4	ADDENDUM #4	JA

GMS ARCHITECTS

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IDEA-SOUTH MCALLEN CAMPUS
PHASE I
MCALLEN, TEXAS

IDEA Public Schools



5/11/2018

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Gomez Mendez Saenz Inc.
Architects-Planners
Interior Designers

Date: May 11, 2018
Scale: As Noted
Project Architect: David Monreal, AIA
Drawn By: JA, RB
Job No.: IDEA South McAllen Phase I
Sheet: A2.02

SITE PLAN NOTES

GENERAL SITE NOTES:

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY, COUNTY, STATE, FEDERAL AND OSHA REGULATIONS.
2. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH, AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
3. ALL DIMENSIONS AND RADII ARE TO THE BACK OF CURB, EDGE OF PAVEMENT, CENTER OF STRIPE OR OBJECT, OR FACE OF BUILDING UNLESS OTHERWISE NOTED.
4. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS THAT ARE TO BE ABANDONED, REMOVED OR RELOCATED, SHALL BE DONE IN A PROPER LEGAL MANNER OFFSITE, AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
6. CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND REPLACEMENT OF PROPERTY CORNERS.
7. CONTRACTOR SHALL MATCH EXISTING CURB & GUTTER IN GRADE, SIZE, TYPE AND ALIGNMENT WHERE APPLICABLE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO DAMAGE OF ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING.

DEMOLITION PLAN NOTES

"CAUTION" - NOTICE TO CONTRACTOR:

THE CONTRACTOR IS PUT ON NOTICE THAT THERE ARE NUMEROUS UNDERGROUND UTILITIES IN THE LINE OF WORK, INCLUDING WATER, SEWER, GAS, TELEPHONE IRRIGATION (CONCRETE PIPE) AND ELECTRIC. THERE MAY BE OTHER UTILITIES INCLUDING CABLE TELEVISION, TELECOMMUNICATIONS AND OTHERS, SOME OF THESE UTILITIES MAY BE ABANDONED, WHILE MANY ARE ACTIVE.

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CONDUCTING EXCAVATION OPERATIONS, AND IF ANY EXISTING UTILITIES ARE DAMAGED, THEY SHALL BE REPAIRED IMMEDIATELY AT NO COST TO THE OWNER. THE CONTRACTOR IS TO BE AWARE THAT IF ANY EXISTING UTILITIES ARE SHOWN ON THE PLANS THEY ARE SHOWN IN THEIR APPROXIMATE LOCATION ONLY AND THAT THE EXISTING UTILITIES SHOWN REPRESENT ONLY A DILIGENT EFFORT TO SHOW THE APPROXIMATE LOCATION OF SOME OF THE UTILITIES.

THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST FILED LOCATION OF UTILITIES.

"NOTICE TO CONTRACTOR" - TEXAS ONE CALL SYSTEM:

AS REQUIRED BY THE "TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

GENERAL DEMOLITION NOTES:

1. NO EARTH DISTURBING ACTIVITIES SHALL COMMENCE UNTIL ALL PERIMETER EROSION CONTROL MEASURES ARE IN PLACE IN ACCORDANCE WITH THE EROSION & SEDIMENT CONTROL PLAN.
2. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
3. THE CONTRACTOR SHALL LOCATE AND REMOVE ALL UNDERGROUND UTILITY PIPING, IRRIGATION PIPING, AND CONDUIT ON EXISTING SITE AS PART OF THE BASE BID, UP TO A DEPTH OF 24 INCHES BELOW EXISTING GRADES.
4. CONTRACTOR SHALL LOCATE AND REMOVE ALL UNDERGROUND UTILITY CABLES (ELECTRIC, TELEPHONE, ETC.) ON THIS SITE UP TO A DEPTH OF 24 INCHES BELOW EXISTING GRADES AS PART OF BASE BID.
5. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATING AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
6. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL PROPERTY CORNER MONUMENTS, AND SHALL HAVE, AT HIS EXPENSE, ALL CORNER MONUMENTS REPLACED WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES.
7. NOTES SHOWN HERE ON REGARDING SPECIFIC ITEMS OF DEMOLITION ARE GENERAL IN NATURE, AND ARE NOT INTENDED TO BE WHOLLY INCLUSIVE. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL EXISTING IMPROVEMENTS TO THE EXTENT AS NOTED IN THE SPECIFICATIONS, TO THE SATISFACTION OF THE OWNER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DISCONNECTION OF ALL UTILITIES SERVING THE EXISTING SITE WITH THE APPROPRIATE UTILITY COMPANY, AND SHALL OBTAIN APPROVAL FROM SAME TO COMMENCE DEMOLITION ACTIVITIES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLUGGING, CAPPING, OR OTHERWISE TERMINATING UTILITY SERVICE LINES AT EXISTING METER LOCATIONS, CLEANOUTS, ETC.

INSPECTIONS/CERTIFICATIONS NOTE:

ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.

UTILITY PLAN NOTES

GENERAL UTILITY NOTES:

1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE, MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50). CONTRACTOR SHALL BE RESPONSIBLE FOR ADDING 45° BENDS WHERE NECESSARY TO ROUTE PROPOSED WATER LINES AROUND PROPOSED STORM SEWER.
4. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE CITY UTILITY DEPARTMENT AS TO LOCATION AND SCHEDULING OF TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO EXISTING UTILITIES.
5. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
6. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED PRIOR TO BACKFILLING.
7. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
8. DRAWINGS TO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
9. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
10. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
11. CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS OUTLINED BY OSHA.
12. ALL STEEL ENCASEMENT PIPE SHALL HAVE A WALL THICKNESS OF 0.25 INCHES.
13. ALL SANITARY SEWER AND WATER LINES SHALL COMPLY WITH THE REQUIREMENTS AS SPECIFIED IN THE SPECIFICATIONS.
14. DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING, TO CENTERLINE OF MANHOLE, FACE OF BUILDING, OR BACK OF CURB UNLESS OTHERWISE NOTED.
15. IN THE EVENT OF DAMAGE TO UNDERGROUND FACILITIES, WHETHER SHOWN OR NOT SHOWN IN THE DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO PLACE THE FACILITIES BACK IN SERVICE AT NO INCREASE IN THE CONTRACTOR'S PRICE, AND ALL SUCH REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF THE COMPANY OR AGENCY SERVICING THE FACILITY.
16. THE CONTRACTOR SHALL EXERCISE EXTRA CARE TO PREVENT DAMAGE TO ALL OTHER STRUCTURES IN THE AREA INCLUDING BUILDINGS, FENCES, ROADS, PIPELINES, UTILITIES, ETC., WHETHER PUBLICLY OR PRIVATELY OWNED.
17. UNTIL ACCEPTANCE BY THE ENGINEER OF ANY PART OR ALL OF THE CONSTRUCTION, AS PROVIDED FOR IN THE PLANS AND SPECIFICATIONS, IT SHALL BE UNDER THE CHARGE AND CARE OF THE CONTRACTOR, AND HE SHALL TAKE EVERY NECESSARY PRECAUTION AGAINST INJURY OR DAMAGE TO ANY PART OF THE WORK. THE CONTRACTOR SHALL REBUILD REPAIRS, RESTORE AND MAKE GOOD, AT HIS OWN EXPENSE, ALL INJURIES OR DAMAGE TO ANY PORTION OF THE WORK BEFORE ITS COMPLETION AND ACCEPTANCE.
18. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY FOR ANY CONSTRUCTION DONE ON PUBLIC R.O.W. AND SHALL INCLUDE TRAFFIC CONTROL AS REQUIRED.
19. NOTICE TO CONTRACTOR: TEXAS ONE CALL SYSTEM AS REQUIRED BY "THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.
20. CONTRACTOR SHALL VISIT EXISTING CONDITIONS OF THE SITE.
21. CONTRACTOR SHALL IDENTIFY ALL UNDERGROUND LINES BEFORE COMMENCING WORK.CONTRACTOR SHALL ADJUST ANY ELECTRICAL LINES THAT CONFLICT WITH CONSTRUCTION OF THESE IMPROVEMENTS.

TRAFFIC CONTROL NOTE:

GUIDELINES SET FORTH IN PART IV "STANDARDS AND GUIDES FOR TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS" OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MOST RECENT EDITION AS REVISED) SHALL BE OBSERVED.

UTILITY PLAN DETAIL NOTES

GENERAL NOTES FOR WATER CONSTRUCTION:

1. DISINFECTION OF NEW WATER MAINS SHALL BE IN CONFORMANCE WITH AWWA C601 & C651. ALL NEW WATER MAINS SHALL BE DISINFECTED BEFORE THEY ARE PLACED IN SERVICE. ALL WATER MAINS TAKEN OUT OF SERVICE FOR INSPECTING, REPAIRING OR OTHER ACTIVITY WHICH MIGHT LEAD TO CONTAMINATION OF WATER SHALL BE DISINFECTED BEFORE THEY ARE RETURNED TO SERVICE.
2. ALL WATER LINE PIPE FURNISHED SHALL MEET THE REQUIREMENTS OF AWWA C900. LATEST REVISION. HYDROSTATIC TEST SPEC. SHALL BE 150 P.S.I FOR 8 HOURS OR 180 P.S.I. FOR 4 HOURS.
3. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C110 STANDARDS..
4. CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND THRUST PRESSURE. NO SEPARATE PAY.
5. WATER LINE TRENCHES INSIDE STREET RIGHT OF WAY SHALL HAVE SAND BEDDING TO THE SPRINGLINE OF THE PIPE AND THEN BACKFILLED WITH SELECT FILL IN MAX 8" LIFTS AND COMPACTED TO A MINIMUM OF 95% STD. DENSITY, AT +/-3% OF OPTIMUM MOISTURE CONTENT.
6. MAINTAIN A MINIMUM OF 18 INCHES VERTICAL CLEARANCE BETWEEN WATER LINES AND ALL OTHER UTILITIES.
7. UNLESS OTHERWISE APPROVED, ALL WATER MAINS SHALL BE PLACED A MINIMUM DEPTH OF 4'-6' BELOW TOP OF PROPOSED STREET CURBS OR 48" OF COVER ABOVE PIPE LOCATED IN STREET RIGHT OF WAY OR EASEMENTS.
8. ALL CONCRETE BLOCKING SHALL CONSIST OF 3000-P.S.I. CONCRETE.
9. ALL WORK AND MATERIAL SHALL BE SUBJECT TO CITY ENGINEERS APPROVAL DURING CONSTRUCTION AND UPON COMPLETION.
10. ALL WATER SERVICE LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH GOVERNING REGULATIONS.
11. TRACER WIRE SHALL BE INSTALLED ON ALL PUBLIC WATER LINES.

MANHOLE TESTING:

MANHOLES SHALL BE TESTED FOR LEAKAGE SEPARATELY AND INDEPENDENTLY OF THE WASTEWATER LINES BY HYDROSTATIC EXFILTRATION TESTING, VACUUM TESTING OR OTHER METHODS ACCEPTABLE TO THE COMMISSION. IF A MANHOLE FAILS A LEAK TEST, THE MANHOLE MUST BE MADE WATER TIGHT AND RETESTED. THE MAXIMUM LEAKAGE FOR HYDROSTATIC TESTING SHALL BE 0.025 GALLONS PER FOOT DIAMETER PER FOOT ON MANHOLE DEPTH PER HOUR.

SEWER PIPE TESTING:

EXFILTRATION TESTS SHALL BE PERFORMED ON ALL SEWER PIPE USING LOW PRESSURE AIR TEST. THE PROCEDURE FOR THE LOW PRESSURE AIR TEST SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM C-924, ASTM F-1417, OR OTHER APPROPRIATE PROCEDURES.

DEFLECTION TESTING:

DEFLECTION TEST SHALL BE PERFORMED ON ALL FLEXIBLE PIPES. FOR PIPE WITH INSIDE DIAMETERS LESS THAN 27 INCHES, A RIGID MANDREL SHALL BE USED TO MEASURE DEFLECTION. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%.

GENERAL NOTES FOR SEWER CONSTRUCTION:

1. THE TOP ELEVATION OF MANHOLES AND CLEANOUTS CONSTRUCTED IN PAVED AREAS SHALL MATCHED FINISHED PAVEMENT GRADE. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASSED AREAS SHALL BE SIX (6) INCHES ABOVE FINISHED GRADE (UNLESS OTHERWISE NOTED).
2. SEWER PIPE DIAMETERS AND MATERIAL SHALL BE AS INDICATED ON PLANS AND SPECIFICATIONS.
3. CONTRACTOR MUST BE LICENSED AND BONDED.
4. PIPE SHALL BE BURIED A MINIMUM OF 4'.
5. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE.
6. REPAIR OF ALL EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO MINIMIZE THE DISTURBANCE OF ALL EXISTING SHRUBS, LAWNS, AND OTHER LANDSCAPING FEATURES AND SHALL COORDINATE REMOVAL OF TREES WITH OWNERS OR ENGINEER.
8. PLUGS BETWEEN THE EXISTING AND PROPOSED SYSTEM SHALL BE REMOVED ONLY WHEN THE PROPOSED SANITARY SEWERS HAVE BEEN COMPLETED, TESTED AND ACCEPTED. NO PLUG SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
9. SEWER SERVICE SHALL BE MAINTAINED TO ALL RESIDENCES AT ALL TIMES. IF FOR ANY REASON, THE CONTRACTOR NEEDS TO INTERRUPT SERVICE, HE SHALL FIRST OBTAIN APPROVAL FROM ENGINEER.
10. ALL CUT & PLUG OF SEWER LINES SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS. NO SEPARATE PAY WILL BE ALLOWED.
11. WHENEVER SANITARY SEWER CROSSES WITHIN 10 FEET ABOVE OR BELOW A WATER LINE, THE SANITARY SEWER SHALL BE CONSTRUCTED OF D.I., CLASS 50, PRESSURE PIPE OR AWWA C900 PVC FOR A MINIMUM DISTANCE OF 10 FEET ON EITHER SIDE OF THE WATER LINE.
12. ALL SANITARY SEWER MAINS SHALL BE SDR-26 PVC WITH 4' MINIMUM BURY, PIPE PER THE CITY REQUIREMENTS.
13. P.V.C. PIPE SHALL HAVE BELL AND SPIGOT JOINTS. NO CHEMICALLY WELDED JOINTS SHALL BE PERMITTED.
14. GRADES FOR SEWER MAINS MAY BE VARIED FROM ELEVATIONS INDICATED ON THE PLANS ONLY ON THE DIRECTION AND APPROVAL OF THE OWNER OR HIS AUTHORIZED REPRESENTATIVE.
15. ALL UTILITIES MAY BE OPEN-CUT UNLESS SPECIFICALLY NOTED OTHERWISE. REPAIR OF ALL EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE LINED.

STORM SEWER PLAN NOTES

STORM SEWER NOTES:

1. IF THE CONTRACTOR RELOCATES BENCHMARK WITH A NEW BENCHMARK, IT SHALL BE LOCATED WITHIN A TOLERANCE OF 0.10'.
2. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
3. SEE SPECIFICATIONS FOR BACKFILLING AND COMPACTION REQUIREMENTS OF STORM SEWER TRENCHES.
4. ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE GROUTED WITH NON-SHRINK GROUT TO ASSURE A WATERTIGHT FIT.
5. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING LIDS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISHED GRADE. LIDS SHALL BE LABELED "STORM SEWER".
6. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS OUTLINED IN THE T.P.D.E.S. PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING SWPPP AND REQUIRED PERMITS.
7. CONTRACTOR SHALL UTILIZE PREFABRICATED BENDS, FIELD FABRICATED BENDS OR RADIUS PIPE TO ACCOUNT FOR DEFLECTIONS IN STORM SEWER PIPE WHERE SHOWN HEREON.
8. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
9. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED TO REMOVE ALL SILT AND DEBRIS.
10. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
11. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR FROM INVERT IN TO INVERT OUT.
12. REINFORCED CONCRETE PIPE SHALL BE CLIII RUBBER GASKET

GRADING PLAN NOTES

GENERAL GRADING NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
2. ALL CUT OR FILL SLOPES SHALL BE 3:1 UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL ADJUST AND/OR SAW CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE SMOOTH FIT AND CONTINUOUS GRADE.
4. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
5. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPED 3:1 OR STEEPER.
6. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
7. STRIP THE TOP 6" OF TOPSOIL AND VEGETATION FROM PROPOSED PAVING AND SIDEWALKS. STRIPPED TOPSOIL MAY BE STOCKPILED AND USED FOR FILL IN LANDSCAPE AND LAWN AREAS PROVIDED IT IS FREE OF ROCKS AND TRASH.
8. FILL BELOW PROPOSED PAVEMENT AREAS MAY BE SELECT FILL WITH PLASTICITY INDEX RANGING FROM 5-17%.
9. ALL SIDEWALKS SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT. ELEVATIONS OF TOP OF CURB NEAR BUILDING ASSUME 1/4" PER FOOT SLOPE ACROSS COVERED ENTRY AND SIDEWALK.
10. EXPANSION JOINTS TO BE PLACED WHERE BUILDING FOUNDATION MEETS CONCRETE PAVEMENT OR SIDEWALK.
11. ALL REQUIRED SELECT FILL TO BE PLACED IN 6" LIFTS WITH COMPACTION TO 95% PROCTOR.
12. ALL CURB AND GUTTER TO BE BACKFILLED AND STABILIZED AS REQUIRED.
13. ALL GRADING TO BE ESTABLISHED TO PROVIDE SURFACE TO DRAINAGE.
14. ALL OBSTRUCTIONS BUILDINGS, POLES, WIRES, SLABS, FENCING, OR GUARD RAILS CONFLICTING WITH THE PROPOSED IMPROVEMENTS TO BE REMOVED, RELOCATED AND OR DISPOSED OF BY CONTRACTOR AS PER ENGINEERS WRITTEN INSTRUCTIONS.
15. HANDICAP SIGNAGE TO CONFORM WITH FEDERAL REGULATIONS (A.D.A.).
16. CONTRACTOR TO INCLUDE ALL STRIPING FOR PARKING LOTS, STREETS & ROADWAYS.
17. CIVIL ENGINEER WILL NOT PROVIDE CONSTRUCTION STAKING ON (ON-SITE) IMPROVEMENTS.
18. CONTRACTOR TO GRADE SWALES AS REQUIRED FROM SIDEWALK DRAINAGE OPENINGS, FIRE LANES, CULVERTS AND CURB SLOTS TO INLETS.
19. CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL THROUGHOUT THE DURATION OF THE CONSTRUCTION.
20. CONTRACTOR SHALL PROVIDE SWPPP AS PART OF PERMITTING PROCESS.

GENERAL NOTES

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STATE OF TEXAS
MARIANO GARCIA
90956
REGISTERED
PROFESSIONAL ENGINEER
06/08/18

No.	REVISIONS	BY
	ADDENDUM #4 DATE: 06/08/18	MGE

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IDEA - SOUTH MCALLEN CAMPUS
PHASE I
MCALLEN, TEXAS

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Architects-Planners
Interior Designers

Date: JUNE 08, 2018
Scale: As Noted
Civil Engineer: Mariano Garcia, P.E.
Drawn By: MGG
Job No. 17-167
IDEA South McAllen Phase I
Sheet: C1.0

REMAINING 10.40 ACRES
CITY OF McALLEN
LOT 8, BLOCK 3,
RIO BRAVO PLANTATION COMPANY SUBDIVISION

S 81°29'15" E 1,215.02'

10.00' UTILITY EASEMENT

S. Ware Rd.
(R.O.W. WIDTH VARIES)

PAULA AVE.

QUETA AVE.

RAQUEL AVE.

ROSALVA A

SARAH AVE.

135.00' EXIST. R.O.W.

717.03'

N 08°30'45" E

S 08°30'45" W

20.00 ACRES GROSS
3.21 ACRES ROAD R.O.W.
16.79 ACRES NET

CITY OF McALLEN
PROPERTY ID# 270342
GEOGRAPHIC ID# R2950-00-003-0005-00

LOT 8, BLK 3

APPROXIMATE LOCATION ABANDONED ENTERPRISE 6" BURIED GAS LINE

10.00' UTILITY EASEMENT

N 81°29'15" W 1,215.02'

asphalt road

asphalt drive

concrete

ditch top

ditch bottom

EXISTING 230.00' CITY OF MCALLEN DRAIN DITCH
6.401 ACRE TRACT, DOCUMENT NO. 716837,
OFFICIAL RECORDS, HIDALGO COUNTY, TEXAS

S 53°33'15" W 35.36'

10' x 24.75'
SOUTH TEXAS NATURAL GAS GATHERING CO.
VOL. 944, PG. 46
DEED RECORDS
(Item 10)

SARAH AVE.
(40' R.O.W.)

S.E. COR.
LOT 8, BLK 3

530.00'

40.00' DEDICATION CITY OF MCALLEN RIGHT OF WAY
VOL. 27, PAGE 86A, M.R.H.C.T.

40' ROAD DEDICATION TO THE CITY OF McALLEN
VOL. 27, PAGE 86A
MAP RECORDS

BASIS OF BEARING

LOT 8
McALLEN SOUTHWEST INDUSTRIAL DISTRICT UNIT 5
VOL. 27, PAGE 86A
HIDALGO COUNTY MAP RECORDS

LOT 7
McALLEN SOUTHWEST INDUSTRIAL DISTRICT UNIT 5
VOL. 27, PAGE 86A
HIDALGO COUNTY MAP RECORDS

LOT 6B
McALLEN SOUTHWEST INDUSTRIAL DISTRICT UNIT 5
VOL. 27, PAGE 86A
HIDALGO COUNTY MAP RECORDS

LOT 6A
McALLEN SOUTHWEST INDUSTRIAL DISTRICT UNIT 5
VOL. 27, PAGE 86A
HIDALGO COUNTY MAP RECORDS

VOLUME W, PAGE 197, HIDALGO COUNTY DEED RECORDS

105.0' STATE OF TEXAS R.O.W.
DOCUMENT NO. 687928 &
DOCUMENT NO. 716837
OFFICIAL RECORDS
(SAVE AND EXCEPT)

EXIST. MANHOLE
TOP = 99.74'
NORTH FL = 85.24'
SOUTH FL = 85.36'

EXIST. CURB INLET
TOP = 97.93'
FL = 89.4'

EXIST. MANHOLE
TOP = 98.72'
NORTH FL = 85.22'
SOUTH FL = 85.4'

EXIST. CURB INLET
TOP = 97.78'
FL = 89.27'

EXIST. MANHOLE
TOP = 100.22'
NORTH FL = 85.70'
SOUTH FL = 85.84'

EXIST. STORM MANHOLE
TOP = 98.18'
FL = 88.02'

84" x 5X8 18 GA.
W/ BLUE CAP R.C.B.C.
ELEV. = 99.85

concrete box

LEGEND

- FD. 1/2 INCH IRON ROD
- SET 1/2 INCH IRON ROD
- FD. 60-D NAIL
- EXISTING LIGHT POLE
- EXISTING POWER POLE
- EXISTING GUY WIRE
- EXISTING TEL. PEDESTAL
- EXISTING TRAFFIC SIGN
- EXISTING GAS METER
- EXISTING WATER METER
- EXISTING ELECTRICAL BOX
- EXISTING GAS VALVE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING STAND PIPE
- EXISTING IRRIGATION VALVE
- EXISTING CLEAN OUT
- EXISTING SPRINKLER VALVE
- EXISTING BACK FLOW PREVENTER
- EXISTING CURB INLET
- EXISTING GRATE INLET
- EXISTING GRATE INLET
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- WL — EXISTING WATER LINE
- SS — EXISTING SANITARY SEWER LINE
- ST — EXISTING STORM SEWER LINE
- IRR — EXISTING IRRIGATION LINE

EXISTING CONDITION

SCALE: 1"=50'

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IDEA - SOUTH MCALLEN CAMPUS PHASE I

MCALLEN, TEXAS

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Date: JUNE 08, 2018
Scale: As Noted
Civil Engineer: Mariano Garcia, P.E.
Drawn By: MGG
Job No. 17-167
Sheet: IDEA South McAllen Phase I
C2.0

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MCALLEN, TEXAS

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NOTE:

1. CONTRACTOR SHALL INCLUDE ENGINEERED TRAFFIC CONTROL PLANS FOR CONNECTIONS ON SOUTH WARE ROAD AS PER LATEST TX MUTCD AND MEASURES.

LEGEND

- FD. 1/2 INCH IRON ROD
- SET 1/2 INCH IRON ROD
- FD. 60-D NAIL
- EXISTING LIGHT POLE
- EXISTING POWER POLE
- EXISTING GUY WIRE
- EXISTING TEL. PEDESTAL
- EXISTING TRAFFIC SIGN
- EXISTING GAS METER
- EXISTING WATER METER
- EXISTING ELECTRICAL BOX
- EXISTING GAS VALVE
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- EXISTING FIRE HYDRANT
- EXISTING STAND PIPE
- EXISTING IRRIGATION VALVE
- EXISTING CLEAN OUT
- EXISTING SPRINKLER VALVE
- EXISTING BACK FLOW PREVENTER
- EXISTING CURB INLET
- EXISTING GRATE INLET
- EXISTING GRATE INLET
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING WATER LINE
- EXISTING SANITARY SEWER LINE
- EXISTING STORM SEWER LINE
- EXISTING IRRIGATION LINE

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Date:	JUNE 08, 2018
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Job No.	17-167
	IDEA South McAllen Phase I
Sheet:	C3.0

SITE PLAN

SCALE: 1"=50'

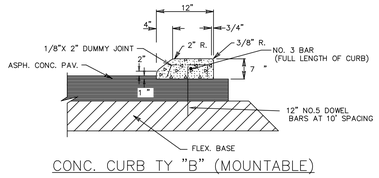
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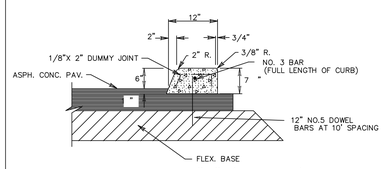
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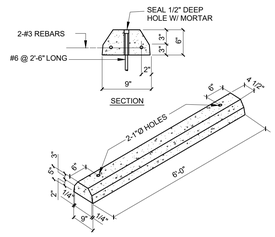
CONC. CURB TY "B" (MOUNTABLE)

RAISED MEDIAN DETAIL "B" | 8

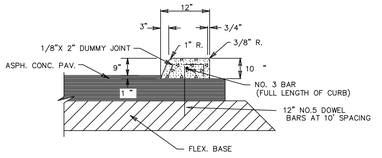


CONC. CURB TY "A" (BARRIER)

RAISED MEDIAN DETAIL "A" | 7



PRECAST CONCRETE WHEEL STOP (TYP) | 5



CONC. CURB TY "C" (BARRIER)

RAISED MEDIAN DETAIL "C" | 9

GENERAL NOTES

1. WHEN POSSIBLE SIDEWALKS SHOULD BE PLACED NEXT TO THE PROPERTY LINE, ALLOWING A MINIMUM OF 1 FOOT BUFFER. DEVIATION OF THE PATHWAY FROM A STRAIGHT LINE IS ENCOURAGED TO AVOID TREES OR OTHER OBSTRUCTIONS.

2. SIDEWALK RAMP LENGTHS PRESENTED IN TABLE 1 ARE GUIDELINES ONLY. SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE.

3. ALL CURB-RAMPS OR LANDINGS ABUTTING THE CROSSWALK SHALL HAVE A DETECTABLE WARNING 24 INCHES DEEP (IN THE DIRECTION OF PEDESTRIAN TRAVEL) AND EXTENDING THE FULL WIDTH OF THE CURB RAMP OR LANDING. THE DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES, ALIGNED IN A GRID PATTERN WITH A DIAMETER OF A NOMINAL 0.9 INCHES (23 MM), A HEIGHT OF NOMINAL 0.2 INCHES (5 MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES (60 MM). THE DETECTABLE WARNING SURFACE SHALL BE A CAST-IN-PLACE TILE CONFORMING TO THE CITY OF PHARR STANDARD SPECIFICATIONS OR PAVERS CONFORMING TO TXDOT STANDARD PED-05, PEDESTRIAN FACILITIES.

4. DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.

5. THESE DETAILS ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS OF WHEELCHAIR RAMPS TO BE SHOWN ON CONSTRUCTION PLANS. CITY CONSTRUCTION INSPECTOR CAN ADJUST LOCATIONS FOR SAFETY OR UTILITY CLEARANCE.

6. SIDEWALKS LESS THAN 5 FEET IN WIDTH SHALL BE PROVIDED WITH A PASSING SPACE AT A MAXIMUM SPACING OF 200 FEET.

7. WHEELCHAIR RAMP SHALL BE CONSTRUCTED WITH 4" CLASS "A" CONCRETE AND 2" MINIMUM SAND, CRUSHED ROCK OR FLEXIBLE BASE MATERIAL.

8. REINFORCING STEEL SHALL BE #3 BARS AT 18" O.C.E.W. OR 6" x 6" - W2.9 x W2.9 WIRE MESH.

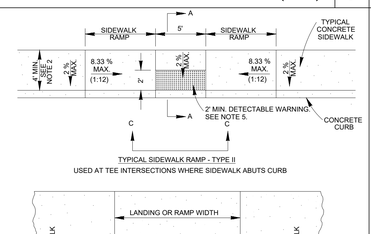
9. SIDEWALK GRADES SHALL NOT EXCEED THE GRADE ESTABLISHED FOR THE ADJACENT ROADWAY, ANY SIDEWALK CONSTRUCTION THAT DEVIATES FROM THE NATURAL GRADE OF THE ROADWAY TO CREATE A GRADE STEEPER THAN THE EXISTING ROADWAY WILL REQUIRE RAMPS, HANDRAILS AND RESTING PLATFORMS TO BE CONSTRUCTED IN ACCORDANCE WITH ADA AND TAS STANDARDS.

10. SIDEWALK CROSS GRADE SHALL HAVE A MAXIMUM SLOPE OF 2%. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.

11. THE CHANGE OF GRADE BETWEEN ADJACENT SURFACES SHALL BE LESS THAN 11%. THE CHANGE OF GRADE SHALL BE DEFINED AS THE ALGEBRAIC DIFFERENCE OF THE ADJACENT SURFACE SLOPES. IN THE CASE OF A STREET ACCESS RAMP DESIGNED AT THE 8.33% MAXIMUM SLOPE, THE ADJACENT PAVEMENT CROSS SLOPE SHALL BE LESS THAN 2.67% (I.E. 8.33-(-2.67)=11). IN ADDITION, THE ADJACENT PAVEMENT CROSS SLOPE SHALL BE LESS THAN OR EQUAL TO 5%.

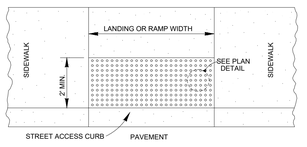
12. IF THE CHANGE OF GRADE BETWEEN ADJACENT SURFACES IS GREATER THAN OR EQUAL TO 11%, A LEVELING STRIP, 2 FEET IN LENGTH, SHALL BE PROVIDED TO TRANSITION THE ADJACENT SURFACES.

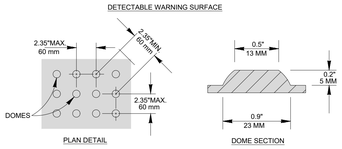
13. ADA COMPLIANCE IN ALTERATIONS INCLUDE ONLY THAT WORK WITHIN THE LIMITS, BOUNDARIES OR SCOPE OF A PLANNED PROJECT.

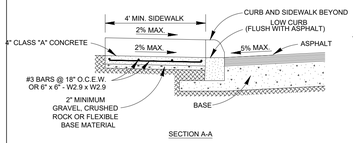


TYPICAL SIDEWALK RAMP - TYPE II

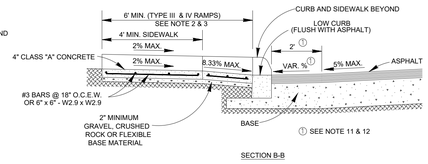
USED AT TEE INTERSECTIONS WHERE SIDEWALK ABUTS CURB





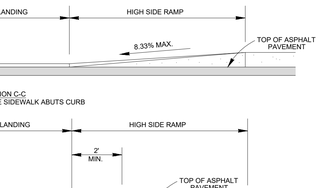


SECTION A-A

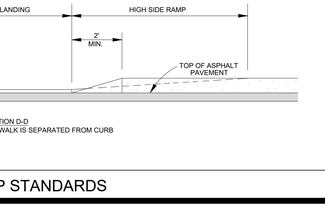


SECTION B-B

NOTE:
STAMPED CONCRETE TRUNCATED DOMES WILL NOT BE ALLOWED TO BE USED FOR DETECTABLE WARNING ON WHEELCHAIR RAMPS. CONTRACTOR MUST SUBMIT TRUNCATED DOME INFORMATION THAT IS TO BE USED ON WHEELCHAIR RAMPS TO THE PROJECT MANAGER FOR APPROVAL AT LEAST 30 DAYS PRIOR TO INSTALLATION.

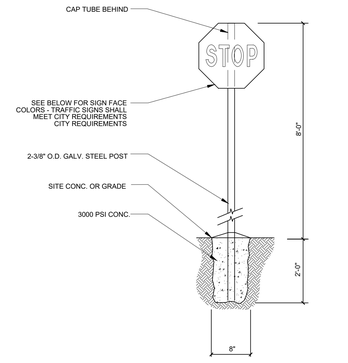


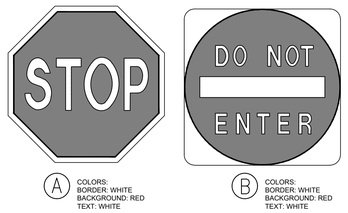
SECTION C-C
CURB PROFILE WHERE SIDEWALK ABUTS CURB



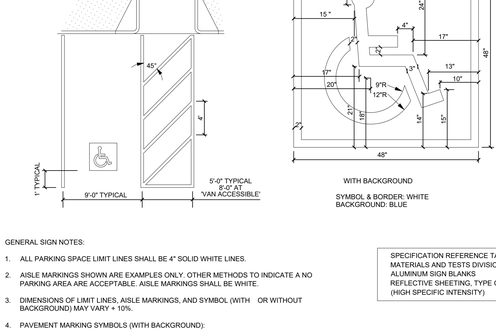
SECTION D-D
CURB PROFILE WHERE SIDEWALK IS SEPARATED FROM CURB

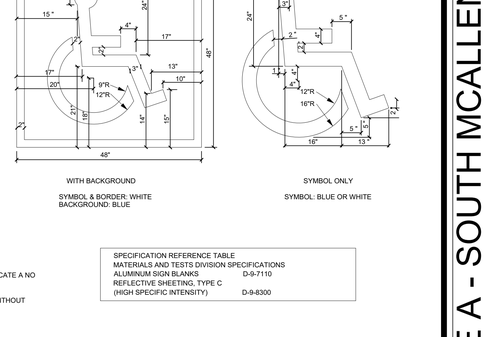
WHEELCHAIR RAMP STANDARDS | 6





SIGN DETAILS | 3





GENERAL SIGN NOTES:

1. ALL PARKING SPACE LIMIT LINES SHALL BE 4" SOLID WHITE LINES.
2. AISLE MARKINGS SHOWN ARE EXAMPLES ONLY. OTHER METHODS TO INDICATE A NO PARKING AREA ARE ACCEPTABLE. AISLE MARKINGS SHALL BE WHITE.
3. DIMENSIONS OF LIMIT LINES, AISLE MARKINGS, AND SYMBOL (WITH OR WITHOUT BACKGROUND) MAY VARY + 10%.
4. PAVEMENT MARKING SYMBOLS (WITH BACKGROUND):

   A-ARE REQUIRED UNLESS STATED ELSEWHERE IN THE PLANS,
   B-SHOULD BE PLACED TOWARD THE FAR END OF THE PARKING SPACES SO AS TO BE VISIBLE TO MOTORISTS IN THE TRAVEL LANE,
   C-MAY BE PAINTED OR PREFABRICATED MATERIAL, AND
   D-SHALL BE 30" X 30" MINIMUM.

5. WITH APPROVAL OF THE ENGINEER, PREFABRICATED PAVEMENT MARKING SYMBOLS WITH BACKGROUND OF OTHER DIMENSIONS EXCEEDING THE 30" X 30" MINIMUM MAY BE USED. ALTERNATIVE DESIGNS SHALL INCLUDE A PROPORTION SIZED SYMBOL OF ACCESSIBILITY, AND SHALL CONFORM TO THE ILLUSTRATED COLORS FOR BACKGROUND, SYMBOL, AND CONFORM TO THE ILLUSTRATED COLORS FOR BACKGROUND, SYMBOL AND BORDER.
6. AN R7-8 SIGN:

   A- SHALL BE REQUIRED FOR EACH ACCESSIBLE PARKING SPACE,
   B- SHALL NOT BE PLACED BETWEEN TWO ACCESSIBLE PARKING SPACES,
   C- SHALL NOT BE PLACED IN A LOCATION THAT RESTRICTS MOVEMENT OF WHEELCHAIRS WITHIN THE ADJACENT SIDEWALK, AND
   D- SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 7 FEET. IF MOUNTED TO WALL OR LOCATED SO AS NOT TO BE NEAR PEDESTRIAN TRAFFIC MINIMUM MOUNTING HEIGHT MAY BE 7 FEET.

7. 7. Post mounted signs should be placed approximately 1 foot (or greater) behind the curb to prevent damage from vehicle overhang.
8. SIGNS MAY BE MOUNTED DIRECTLY TO AN ADJACENT WALL OF A BUILDING WHEN POST MOUNTING IS IMPRACTICAL.

SPECIFICATION REFERENCE TABLE	
MATERIALS AND TESTS DIVISION SPECIFICATIONS	
ALUMINUM SIGN BLANKS	D-9-7110
REFLECTIVE SHEETING, TYPE C (HIGH SPECIFIC INTENSITY)	D-9-8300

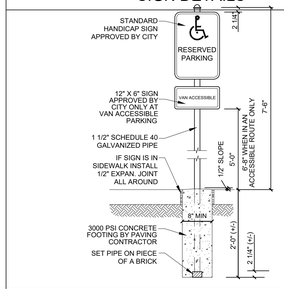
GENERAL SIGN NOTES:

THE ALPHABETS AND LATERAL SPACING BETWEEN LETTERS AND NUMERALS SHALL CONFORM WITH THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", LATEST EDITION, AND ANY APPROVED CHANGES THERETO. LATERAL SPACING OF TEXT SHALL PROVIDE A BALANCED APPEARANCE. ALL MATERIALS SHALL CONFORM TO DEPARTMENT SPECIFICATIONS.

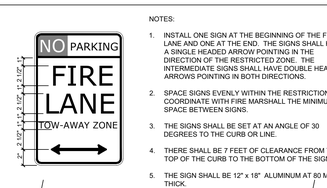
LEGEND SHALL BE APPLIED BY SCREENING PROCESS OF BLACK AND/OR TRANSPARENT COLORED INK, CUT-OUT BLACK VINYL NON-REFLECTIVE DECAL SHEETING AND/OR REFLECTIVE SHEETING OR COMBINATION THEREOF. BACKGROUND SHALL BE WHITE REFLECTIVE SHEETING (TYPE C).

SIGN BLANKS SHALL BE ONE PIECE 0.08 INCH THICK SHEET ALUMINUM ALLOY (TYPE A). UNLESS OTHER-WISE NOTED ELSEWHERE IN THE PLANS.

ACCESSIBLE PARKING STRIPING | 1



TRAFFIC SIGNAGE DETAIL | 4



NOTES:

1. INSTALL ONE SIGN AT THE BEGINNING OF THE FIRE LANE AND ONE AT THE END. THE SIGNS SHALL HAVE A SINGLE HEADED ARROW POINTING IN THE DIRECTION OF THE RESTRICTED ZONE. THE INTERMEDIATE SIGNS SHALL HAVE DOUBLE HEADED ARROWS POINTING IN BOTH DIRECTIONS.
2. SPACE SIGNS EVENLY WITHIN THE RESTRICTION. COORDINATE WITH FIRE MARSHALL THE MINIMUM SPACE BETWEEN SIGNS.
3. THE SIGNS SHALL BE SET AT AN ANGLE OF 30 DEGREES TO THE CURB OR LINE.
4. THERE SHALL BE 7 FEET OF CLEARANCE FROM THE TOP OF THE CURB TO THE BOTTOM OF THE SIGN.
5. THE SIGN SHALL BE 12" x 18" ALUMINUM AT 80 MILS THICK.

NOTE:
FIRE LANE CURB/PAVEMENT STRIPING SHALL BE IN ACCORDANCE WITH LOCAL FIRE MARSHALL'S REQUIREMENTS.

FIRE LANE SIGNAGE & MARKING | 2

SITE DETAILS
SCALE: NTS

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Gomez Mendez Saenz Inc.
Architects-Planners
Interior Designers

Date:	JUNE 08, 2018
Scale:	As Noted
Civil Engineer:	Mariano Garcia, P.E.
Drawn By:	MGG
Job No.	17-167
	IDEA South McAllen Phase I
Sheet:	C3.1

M GARCIA ENGINEERING LLC
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400 W. Nolana Suite H.2 McAllen, Texas 78504
Bus. 956.687.9421 Fax 956.687.3211
www.mgarciaengineering.com TBPE FIRM REG. No. F-9 8 2 8

STATE OF TEXAS
MARIANO GARCIA
90906
REGISTERED
PROFESSIONAL ENGINEER
06/08/18 P.E.

No.	REVISIONS	BY
ADD #1	ADDENDUM #1 DATE: 06/08/18	MGE

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

IDEA - SOUTH MCALLEN CAMPUS PHASE I

MCALLEN, TEXAS

IDEA Public Schools

S 81°29'15" E 1,215.02'

N 81°29'15" W 1,215.02'

N 08°30'45" E 717.03'

S 08°30'45" W 717.03'

S 53°33'15" W 35.36'

530.00'

PHASE I
78 SPACES

PHASE I
159 SPACES

PHASE I
BUS PARKING
(16 BUSES)

PHASE I

PHASE II

PHASE II

DUMPSTER AND ENCLOSURE

FUTURE PAVILLION

FUTURE PORTABLE

FUTURE LEARNING SPACE (FOOTPRINT)

PHASE I ACADEMY MULTI SPORT BLACK TOP 50'X24'

PHASE I ACADEMY PLAY AREA 50'X60'

FUTURE GARDEN (FOOTPRINT)

FUTURE PARCOURSE

20.00 ACRES GROSS
3.21 ACRES ROAD R.O.W.
16.79 ACRES NET

CITY OF McALLEN
PROPERTY ID# 270342
GEOGRAPHIC ID# R2950-00-003-0005-0

LOT 8, BLK 3

EXISTING 230.00' CITY OF MCALLEN DRAIN DITCH
6.401 ACRE TRACT, DOCUMENT NO. 716837,
OFFICIAL RECORDS, HIDALGO COUNTY, TEXAS

40.00' DEDICATION CITY OF MCALLEN RIGHT OF WAY
VOL. 27, PAGE 86A, M.R.H.C.T.

40' ROAD DEDICATION TO THE CITY OF McALLEN
VOL. 27, PAGE 86A
MAP RECORDS

SARAH AVE.
(40' R.O.W.)

S. Ware Rd.
(FORMERLY WILSON LANE)

NEW 8" WATERLINE (237.5 LF)
NEW 1-8"X6" TEE 1-6" GATE VALVE
NEW 8" WATERLINE (153 LF)
NEW 1-8" TEE 2-8" GATE VALVE
NEW 8" WATERLINE (178.5 LF)
NEW 1-16"x8" TAPPING SLEEVE 1-8" GATE VALVE
NEW 1-8" 90° ELL 1-8" GATE VALVE
NEW 16" PVC CASING (42 LF)
NEW 12" PVC CASING (35 LF)
NEW 6" WATERLINE (81 LF)
NEW 16" PVC CASING (35 LF)
NEW FIRE HYDRANT ASSEMBLY
NEW 16" PVC CASING (35 LF)
NEW 1-8"X6" TEE 1-6" GATE VALVE
NEW 48" Ø SAN. SEWER MH TOP=99.15 FL=91.18
NEW 8" PVC SAN. SEWER @0.33% SLOPE (510 LF)
NEW 16" STEEL CASING (20 LF)
NEW FIRE HYDRANT ASSEMBLY
NEW 6" WATERLINE (31 LF)
CONNECT TO EXISTING SANITARY SEWER LINE. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND FLOW LINE ELEVATION
TIE IN AT FL=89.50 EXIST. FL N/S=85.34
NEW 8" WATERLINE (707 LF)
Entry gate w/ video intercom
NEW 8" PVC SAN. SEWER @0.33% SLOPE (362 LF)
NEW 1-8"X4" WYE 1-4" 45° ELBOW
NEW 12" PVC CASING (52 LF)
NEW 6" FIRELINE (116 LF)
NEW 4" FDC (49 LF)
NEW 1- 2" DOUBLE CHECK BACKFLOW PREVENTOR & VAULT
1- POST INDICATOR VALVE
1- 8"x6" TAPPING SADDLE
1- 6" GATE VALVE
NEW 2-16"x2" TAPPING SADDLE
2-2" GATE VALVES
2-2" WATER METER
2-2" 90° ELLS
1-2"x2" TEE
1-2"X3" REDUCER
1-2" BACKFLOW PREVENTOR & VAULT
1-3" 90° ELL
NEW 1-8"X6" TEE 1-6" GATE VALVE
NEW 4" CLEANOUT
NEW 4" PVC SAN. SEWER SERVICE @2.08%(245 L.F.)
NEW 6" PVC CASING (52 LF)
NEW 3" DOMESTIC WATER SERV. (335 LF)
NEW 8" WATERLINE (707 LF)
NEW 1-8"X4" WYE 1-4" 45° ELBOW
NEW FIRE HYDRANT ASSEMBLY
NEW 1-8"X6" TEE 1-6" GATE VALVE 1-8" GATE VALVE
NEW 4" PVC SAN. SEWER SERVICE @1.0%(302 L.F.)
NEW 4" PVC SAN. SEWER SERVICE @2.08%(22 L.F.)
NEW 12" PVC CASING (52 LF)
NEW 6" WATERLINE (71.5 LF)
NEW 4" PVC SAN. SEWER SERVICE @2.08%(12 L.F.)
NEW 16" ISOLATION VALVE
REMOVE AND REPLACE CONCRETE SIDEWALK IF NECESSARY
(DOC STATE OF TEXAS R.O.W.) DOCUMENT NO. 667928 & DOCUMENT NO. 716837 OFFICIAL RECORDS (SAVE AND EXCEPT)
NEW 4" PVC SAN. SEWER SERVICE @2.08%(12 L.F.)
NEW 1-8"X4" WYE 1-4" 45° ELBOW
NEW 48" Ø SAN. SEWER MH TOP=99.20 FL=92.37
NEW 16" PVC CASING (65 LF)
NEW 1-8"X6" TEE 1-6" GATE VALVE
NEW FIRE HYDRANT ASSEMBLY
NEW 6" WATERLINE (11 LF)
NEW 12" PVC CASING (47 LF)
NEW 16" PVC CASING (45 LF)
NEW 12" PVC CASING (195 LF)
NEW 6" WATERLINE (100 LF)
NEW 6" WATERLINE (17 LF)
NEW 1-8" GATE VALVE 1-8" PLUG
NEW 8" WATERLINE (358 LF)
NEW 1-8"X6" TEE 1-6" GATE VALVE
NEW 8" WATERLINE (272 LF)
NEW 1-8" 90° ELL 2-8" GATE VALVE
NEW 8" WATERLINE (390.5 LF)
NEW 1-8" TEE 2-8" GATE VALVE
NEW 8" WATERLINE (178.5 LF)
NEW 1-16"x8" TAPPING SLEEVE 1-8" GATE VALVE
EXIT ONLY
EXIST. CURB INLET TOP = 97.85' FL = 89.23'
EXIST. CURB INLET TOP = 97.70' FL = 89.23'
EXIST. MANHOLE TOP = 98.72' NORTH FL = 85.82' SOUTH FL = 85.34'
EXIST. MANHOLE TOP = 100.22' NORTH FL = 85.70' SOUTH FL = 85.84'
EXIST. STORM MANH TOP = 89.82' FL = 88.02'
BM = 0X8 I.R. W/ BLUE CAP R.O.W. ELEV = 99.85'
10' EXIST. STATE OF TEXAS R.O.W.
135.00' EXIST.
8 SPACES
asphalt road
asphalt drive
concrete
ditch top
ditch bottom
concrete box
APPROX. ACCESS
10.00' UTILITY EASEMENT

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION.
2. PROVIDE A CITY APPROVED DOUBLE CHECK BACKFLOW PREVENTOR & POST INDICATOR VALVE (BFP, PIV, AND FIRE LINE TO BE DESIGNED BY A CERTIFIED FIRE SPRINKLER ENGINEER.)
3. A LICENSED FIRE SPRINKLER COMPANY MUST PROVIDE APPROVED HYDRAULIC CALCULATIONS.
4. ALL MATERIALS & INSTALLATIONS SHALL COMPLY WITH THE CITY OF MCALLEN STANDARDS.

LEGEND

●	FD. 1/2 INCH IRON ROD
○	SET 1/2 INCH IRON ROD
☼	EXISTING LIGHT POLE
⌀	EXISTING POWER POLE
⟵	EXISTING GUY WIRE
▭	EXISTING SIGN
	EXISTING SANITARY SEWER MANHOLE
⊗	PROPOSED GATE VALVE
W	PROPOSED WATER METER
	PROPOSED FIRE HYDRANT
	PROPOSED FIRE DEPARTMENT CONNECTION
⊙	PROPOSED CLEAN OUT
S	PROPOSED SANITARY SEWER MANHOLE

KEYED NOTES

1	REFER TO PLUMBING PLAN FOR CONTINUATION

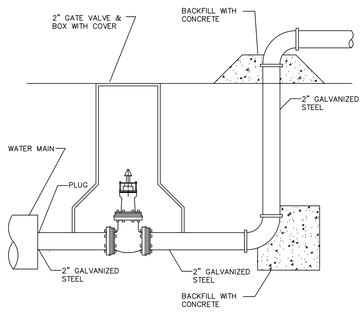
N
W E
S
MGE

UTILITY LAYOUT

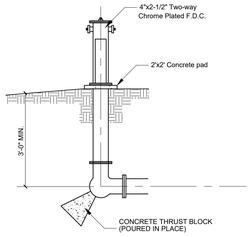
SCALE: 1"=40'

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Gomez Mendez Saenz Inc.
Architects-Planners
Interior Designers

Date: JUNE 08, 2018
Scale: As Noted
Civil Engineer: Mariano Garcia, P.E.
Drawn By: MGG
Job No. 17-167
IDEA South McAllen Phase I
Sheet: C4.0

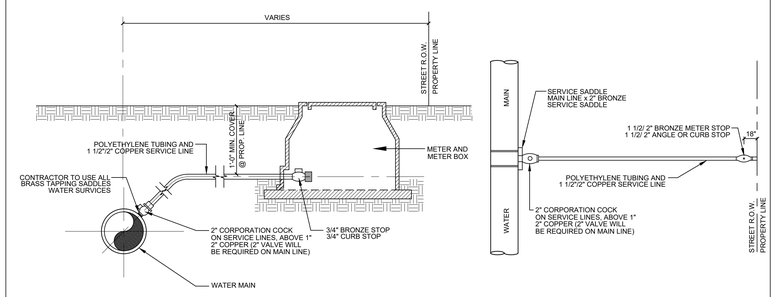


TYPICAL 2" BLOW OFF VALVE — 16

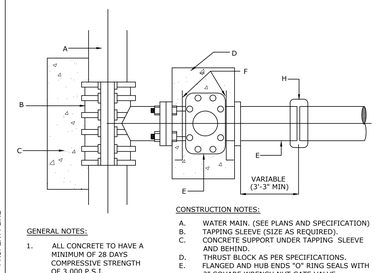


NOTE:
AS PER N.F.P.A. 13 A-5-15.2 THE F.D.C. SHOULD BE LOCATED NOT LESS THAN 18" (457 mm) AND NOT MORE THAN 4 FT. (1.2m) ABOVE THE LEVEL OF THE ADJACENT OR ACCESS LEVEL

FIRE DEPT. CONNECTION DETAIL — 13



SINGLE WATER SERVICE CONNECTION — 8



GENERAL NOTES:

1. ALL CONCRETE TO HAVE A MINIMUM OF 28 DAYS COMPRESSIVE STRENGTH OF 3,000 P.S.I.

CONSTRUCTION NOTES:

A. WATER MAIN. (SEE PLANS AND SPECIFICATION)
B. TAPPING SLEEVE (SIZE AS REQUIRED).
C. CONCRETE SUPPORT UNDER TAPPING SLEEVE AND BEHIND.
D. THRUST BLOCK AS PER SPECIFICATIONS.
E. FLANGED AND HUB ENDS "O" RING SEALS WITH 2" SQUARE WRENCH NUT GATE VALVE.
F. ANCHOR RODS.
G. PVC PIPE.
H. SIMPLEX COUPLING.

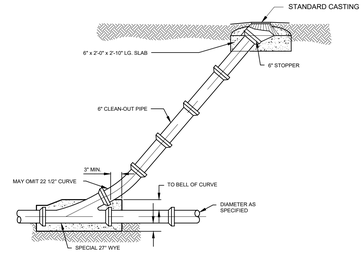
WATER TAPPING SLEEVE & VALVE INSTALLATION — 3

M GARCIA ENGINEERING LLC
CIVIL ENGINEERING
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Bus. 956.687.9421 Fax 956.687.3211
www.mgarciaengineering.com TBPE FIRM REG. No. F-9 8 2 8
STATE OF TEXAS MARIANO GARCIA 90956 REGISTERED PROFESSIONAL ENGINEER
06/08/18 P.E.

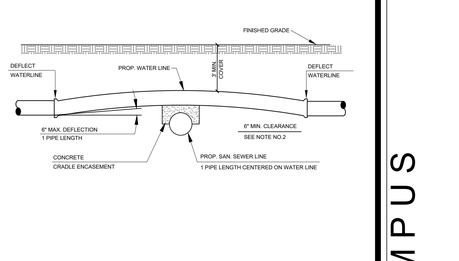
No.	REVISIONS	BY
	ADDENDUM #4 DATE: 06/08/18	MGE

GMS ARCHITECTS
1150 Paredes Line Rd.
Brownsville TX 78526
(956) 546-0110
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IDEA - SOUTH MCALLEN CAMPUS PHASE I
MCALLEN, TEXAS



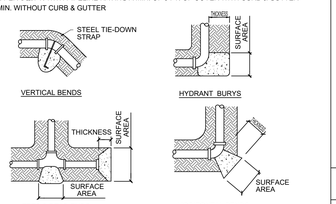
STANDARD CLEANOUT — 4



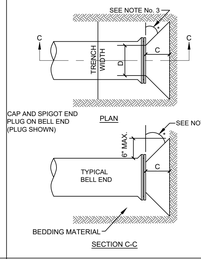
WATERLINE CROSSING OVER SANITARY SEWER — 1

HORIZONTAL BLOCKING TABLE									
PIPE SIZE	"X"-" DIM FT.	22 1/2 DEGREES		45 DEGREES		90 DEGREES		TEE & PLUG	
		"A"	MIN. AREA	"B"	MIN. AREA	"C"	MIN. AREA	"D"	MIN. AREA
4"	1.50	1.00	1.00	1.00	1.00	1.00	1.06	1.00	1.06
6"	1.50	1.00	1.00	1.14	1.30	1.55	2.40	1.30	1.70
8"	1.50	1.08	1.18	1.52	2.31	2.07	4.27	1.74	3.02
10"	1.50	1.35	1.84	1.90	3.61	2.58	6.66	2.17	4.17
12"	1.50	1.63	2.65	1.88	5.19	3.10	9.60	2.61	6.79

NOTE:
ALL VALUES SHOWN ARE MIN. FOR A HYDROSTATIC PRESSURE OF 150 P.S.I. AND A SOIL RESISTANCE OF 2,000 LBS. PER SQ./FT. WITH PIPELINE HAVING A MIN. OF 3 FT. OF COVER WITH CURB & GUTTER AND A 5 FT. MIN. WITHOUT CURB & GUTTER



NOTE:
SEE THRUST BLOCK SIZE CHART FOR PROPER THICKNESS AND SURFACE AREAS



GENERAL NOTES:

1. THE LOCATION OF THRUST BLOCKS DEPENDS UPON THE DIRECTION OF THRUST AND TYPE OF FITTINGS.
2. THRUST BLOCK CALCULATIONS ARE BASED ON A WATER LINE PRESSURE OF 150 P.S.I AND AN ALLOWABLE SOIL BEARING VALUE OF 2,500 POUNDS PER SQ. FT.
3. "C" DIMENSIONS SHALL BE LARGE ENOUGH TO MAKE ENOUGH ANGLE * EQUAL TO LARGER THAN 45 DEGREES.
4. ANGLE * SHALL BE EQUAL TO OR LARGER THAN 45 DEGREES.

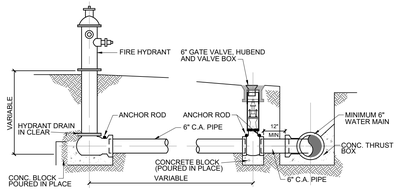
TABLE OF CASING SIZES

NORMAL PIPE SIZE	CASING SIZE (INSIDE DIA.)	CASING MIN. WALL THICKNESS
16"	24"	0.25"

THRUST BLOCK DETAILS — 14

GENERAL NOTES CONCERNING FIRE HYDRANTS:

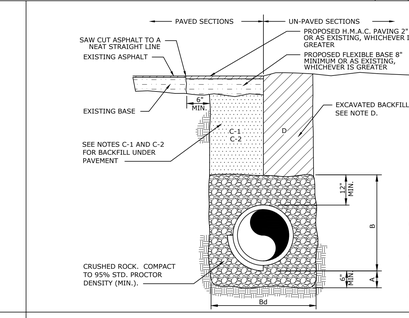
1. DRAINAGE BED SHALL CONSIST OF CRUSHED STONE OR COARSE GRAVEL W/COARSE SAND, MIN. VOLUME 7 CU. FT., DRAIN BED SHALL EXTEND TO TOP OF HYDRANT BASE FLANGE.
2. USE 6" C.I. NIPPLE W/M. J. RETAINER GLANDS IF DISTANCE BETWEEN VALVE AND FIRE HYDRANT MUST BE GREATER THAN 17".
3. FIRE HYDRANT SHALL BE BLOCKED AGAINST UNDISTURBED SOIL AS SHOWN.
4. ALL HYDRANTS SHALL BE INSTALLED 6" ABOVE CURB OR SIDEWALK..
5. LARGE NOZZLE FACES BUILDING, UNLESS OTHERWISE NOTED ON PLANS. ROTATE BARREL AS REQUIRED.
6. HYDRANT SHOULD NOT BE SET CLOSER THAN 4' TO OBSTRUCTIONS THAT ARE IN LINE WITH NOZZLE.
7. M.J. ANCHOR TEE FOR 16" AND SMALLER. WHEN USING REGULAR M.J. TEE USE 13" ADAPTER NIPPLE BETWEEN TEE AND VALVE.
8. TAPPING SADDLE MAY BE USED ON DUCTILE IRON MAINS LARGER THAN 16" DIAMETER.
9. SADDLES SHALL BE EQUAL TO THOSE AS MANUFACTURED BY AMERICAN CAST IRON PIPE CO. THEY SHALL BE FIELD COATED WITH COAL TAR ENAMEL.
10. USE MUELLER A 423 3-WAY NOZZLE HYDRANT WITH A 4 1/2" STEAMER WITH NST THREADS AND 6" MECHANICAL JOINT INLET CONNECTION (OR APPROVED EQUAL).
11. FIRE HYDRANT LINE SHALL HAVE A MINIMUM COVER OF 4 FEET.
12. FIRE HYDRANT SHALL BE PAINTED YELLOW AT THE FACTORY.
13. ALL CONCRETE TO BE 2500 P.S.I. P.C. CONCRETE.
14. FIRE HYDRANT ASSEMBLY INCLUDES GATE VALVE AND APPURTENANCES.



NOTE:
FLANGE SHALL BE SET AT 6" ABOVE CURB
FACE HYDRANT FACE TOWARD FIRE ACCESS LANE

FIRE HYDRANT INSTALLATION — 9

GATE VALVE — 10



GENERAL NOTES:

A. CRUSHED ROCK BEDDING PLACED, HAND LEVELED, AND COMPACTED BEFORE PIPE IS LAID, UP TO BOTTOM OF PIPE (MIN. THICKNESS = 6").
B. CRUSHED ROCK BACKFILL PLACED AND COMPACTED AFTER PIPE IS LAID, FROM BOTTOM OF PIPE TO 12" ABOVE THE TOP OF PIPE. WORK IN UNDER PIPE HAUNCHES AND COMPACT BY HAND TO SPRING LINE. USE VIBRATORY-TYPE COMPACTORS FOR LIFTS ABOVE THE SPRING LINE. MAXIMUM 6" LIFTS.
Bd. MINIMUM TRENCH WIDTH: PIPE O.D. + 16" (FOR 16" PIPE AND SMALLER); PIPE O.D. X 1.25 + 12" (FOR 18" PIPE AND LARGER)
C-1. (CITY STREETS, PARKING AREA, AND DRIVEWAYS) SELECT EXCAVATED BACKFILL MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR DENSITY IN 8" MAX. LIFTS.
C-2 (STATE MAINTAINED ROADWAY) SAND/CEMENT STABILIZED BACKFILL WITH 7% PORTLAND CEMENT COMPACTED TO 95% STANDARD PROCTOR DENSITY.
D. EXCAVATED EARTH BACKFILL MECHANICALLY COMPACTED IN 12" MAX. LIFTS. MINIMUM STANDARD PROCTOR DENSITY: 90% OUTSIDE RIGHT OF WAY; 95% INSIDE RIGHT OF WAY

EMBEDMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM D 2321. EMBEDMENT MATERIAL SHALL BE CLASS 1A (CRUSHED ROCK) OR 1B (CRUSHED ROCK-SAND MIXTURE) WITH LESS THAN 50% PASSING A No. 4 SIEVE. MAXIMUM 3/4 SIZE FOR PIPE SIZE ≤ 15". GREATER THAN 90% OF CRUSHED ROCK SHALL HAVE AT LEAST THREE BROKEN FACES. NO MORE THAN 2% UNBROKEN FRACTION ALLOWED.

IN SATURATED OR UNSTABLE SOILS, EMBEDMENT SHALL BE CLASS 1B ONLY (SEE SPECIFICATIONS FOR GRADATION REQUIREMENTS).

WHERE THIS STANDARD CONFLICTS WITH THE RECOMMENDATION OF ANY GEOTECHNICAL REPORT, OBTAIN WRITTEN CLARIFICATION FROM THE UTILITY ENGINEER PRIOR TO CONSTRUCTION.

FOUNDATION PREPARATION USING COBBLES, GRAVEL, CEMENT STABILIZATION, OR OTHER METHODS AS APPROVED BY THE ENGINEER SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.

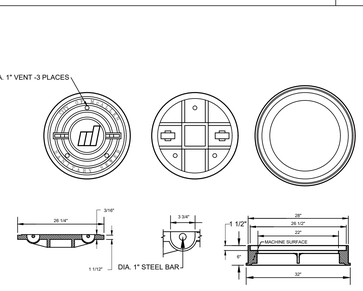
BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY IN 6" MAXIMUM LIFTS. STRUCTURE BACKFILL MATERIAL SHALL BE SAND.

SANITARY SEWER (NON-FORCEMAIN) PIPE BEDDING DETAIL — 5

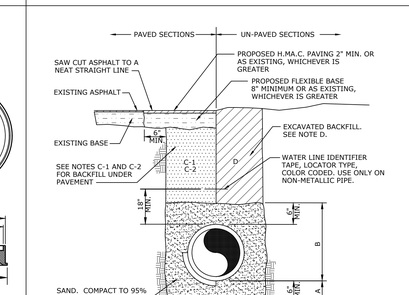
WATERLINE CROSSING UNDER SANITARY SEWER — 2

MODEL NO.	BFP SIZE	BACKFLOW DIMENSIONS A	B	C	D	E	ENCLOSURE DIMENSIONS EL	EW	EH	PAD DIMENSIONS PL	PW
RPBPAE34	¾"	12¾"	7¾"	4⅜"	3¾"	28"	27"	13"	35"	42"	28"
RPBPAE10	1"	13⅜"	7¾"	4⅜"	3¾"	28"	27"	13"	35"	42"	28"
RPBPAE14	1¼"	14⅛"	7¾"	4⅜"	3¾"	28"	39"	13"	35"	54"	28"
RPBPAE15	1½"	18¼"	10⅝"	5¼"	4½"	28"	39"	13"	35"	54"	28"
RPBPAE20	2"	19"	10⅝"	5¼"	3¼"	28"	39"	13"	35"	54"	28"

3/4" thru 2" REDUCED PRESSURE BACKFLOW PREVENTER ON PRECAST CONCRETE PAD — 15



MANHOLE COVER — 11



NOTES:

A. SAND BEDDING PLACED, HAND LEVELED, AND COMPACTED BEFORE PIPE IS LAID, UP TO BOTTOM OF PIPE (MIN. THICKNESS = 6").
B. SAND BACKFILL PLACED AND COMPACTED AFTER PIPE IS LAID, FROM BOTTOMOF PIPE TO 6" ABOVE THE TOP OF PIPE. WORK IN UNDER PIPE HAUNCHES AND COMPACT BY HAND TO SPRING LINE. USE VIBRATORY-TYPE COMPACTORS FOR LIFTS ABOVE THE SPRING LINE. MAXIMUM 6" LIFTS.
Bd. MINIMUM TRENCH WIDTH: PIPE O.D. + 16" (FOR 16" PIPE AND SMALLER) OR PIPE O.D. X 1.25 + 12" (FOR 18" PIPE AND LARGER)
C-1. (CITY STREETS, PARKING AREA, AND DRIVEWAYS) SELECT EXCAVATED BACKFILL MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR DENSITY IN 8" MAX. LIFTS.
C-2 (STATE MAINTAINED ROADWAY) SAND/CEMENT STABILIZED BACKFILL WITH 7% PORTLAND CEMENT COMPACTED TO 95% STANDARD PROCTOR DENSITY.
D. EXCAVATED EARTH BACKFILL MECHANICALLY COMPACTED IN 12" MAX. LIFTS. MINIMUM STANDARD PROCTOR DENSITY: 90% OUTSIDE RIGHT OF WAY; 95% INSIDE RIGHT OF WAY

EMBEDMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM D 2321. EMBEDMENT MATERIAL SHALL BE CLASS II OR III WITH < 50% PASSING A No. 200 SIEVE AND PLASTICITY INDEX < 7.

WHERE THIS STANDARD CONFLICTS WITH THE RECOMMENDATION OF ANY GEOTECHNICAL REPORT, OBTAIN WRITTEN CLARIFICATION FROM THE UTILITY ENGINEER PRIOR TO CONSTRUCTION.

FOUNDATION PREPARATION USING COBBLES, GRAVEL, CEMENT STABILIZATION, OR OTHER METHODS AS DIRECTED BY THE ENGINEER SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.

BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY IN 6" MAXIMUM LIFTS. STRUCTURE BACKFILL MATERIAL SHALL BE SAND.

WATER LINE AND SEWER FORCEMAIN BEDDING DETAIL — 6

TYPICAL FIBERGLASS MANHOLE — 12

TESTING MANDREL CHART

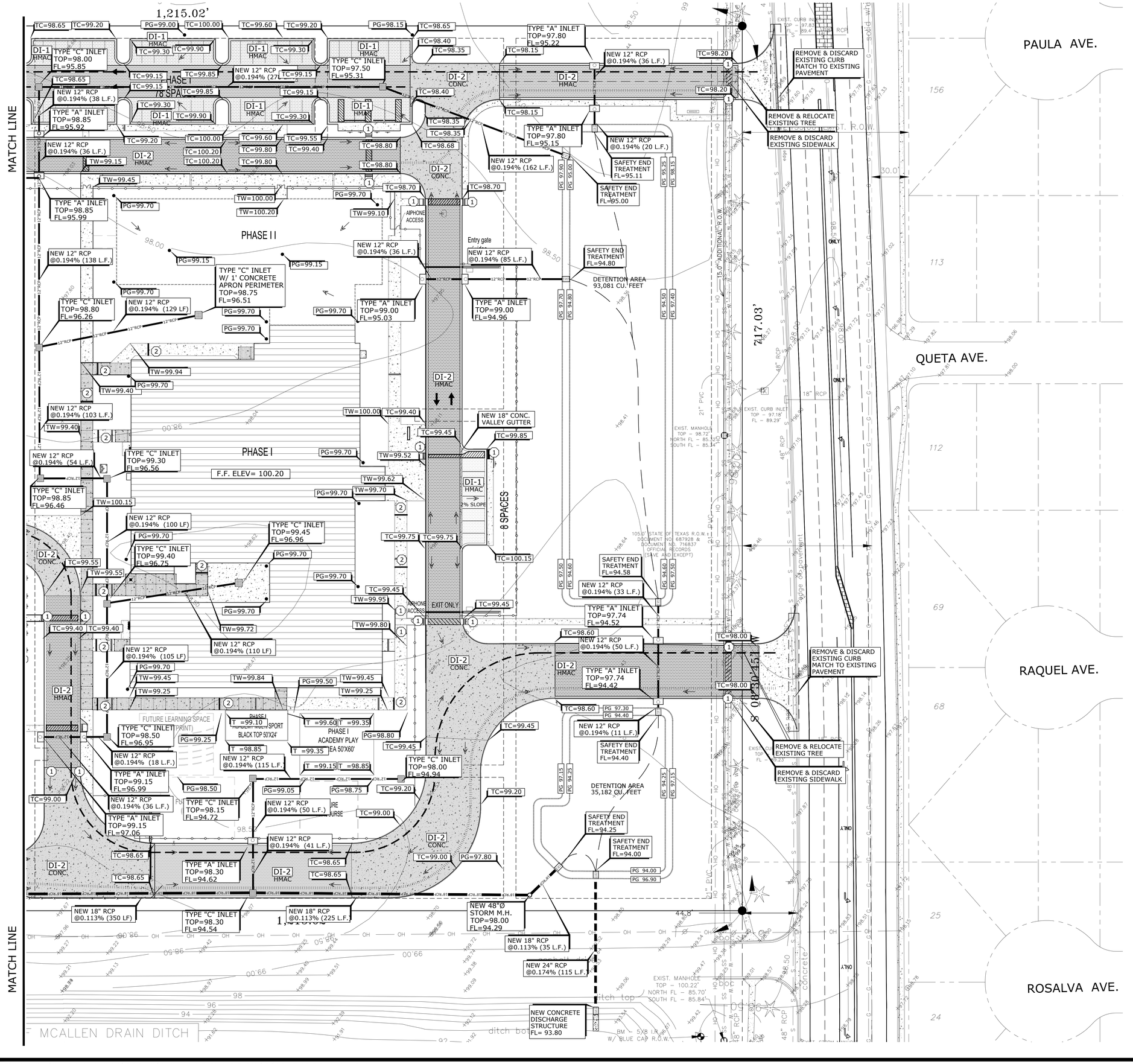
SIZE	A	B	MANDREL O.D. PSM SDR-26	RING O.D. PSM SDR-26
6	4.0"	4.5"	5.50	4.79
8	5.5"	6.0"	7.37	6.66
10	7.0"	7.5"	9.21	8.50
12	8.0"	9.0"	10.96	10.25
15	10.0"	11.0"	13.42	12.71
18	12.0"	13.5"		
21	14.0"	16.0"		
24	16.0"	18.0"		
27	18.0"	20.0"		

GO, NO-GO DEFLECTION TESTING MANDREL — 7

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Architects-Planners
Interior Designers

Date: JUNE 08, 2018
Scale: As Noted
Civil Engineer: Mariano Garcia, P.E.
Drawn By: MGG
Job No: 17-167
IDEA South McAllen Phase I
Sheet: C4.2

UTILITY DETAILS
SCALE: NTS



DRAINAGE REQUIREMENTS	
VOLUME REQUIRED:	119,120 CU. FT.
VOLUME PROVIDED:	133,068 CU. FT.

LEGEND

- FOUND 1/2 INCH IRON ROD
- SET 1/2 INCH IRON ROD
- FOUND PK NAIL
- SET COTTON PICKER SPINDLE
- EXISTING LIGHT POLE
- EXISTING POWER POLE
- EXISTING GUY WIRE
- EXISTING TEL. PEDESTAL
- EXISTING TRAFFIC SIGN
- EXISTING GAS METER
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING IRRIGATION VALVE
- EXISTING STAND PIPE
- EXISTING INLET
- EXISTING TREE
- EXISTING PALM TREE
- EXISTING PLANTERS
- EXISTING MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- WL — EXISTING WATER LINE
- SS — EXISTING SANITARY SEWER LINE
- ST — EXISTING STORM SEWER LINE
- IRR — EXISTING IRRIGATION LINE
- NEW LIGHT DUTY H.M.A.C. (DI-1)
- NEW HEAVY DUTY H.M.A.C. (DI-2)
- NEW CONCRETE PAVEMENT (DI-1)
- NEW CONCRETE PAVEMET (DI-2)
- NEW CONCRETE PAVEMET (DI-3)
- NEW CONCRETE SIDEWALK
- TC=100.00 NEW TOP OF CURB ELEVATION
- TW=100.00 NEW TOP OF WALK ELEVATION
- TP=100.00 NEW TOP OF PAVEMENT ELEVATION
- TOP=100.00 NEW TOP OF INLET ELEVATION
- FL=100.00 NEW FLOW LINE ELEVATION
- EG=100.00 NEW PROPOSED GRADE ELEVATION
- NEW DIRECTION OF RUN-OFF
- ST — NEW STORM SEWER LINE
- PG 100.00 — NEW PROPOSED GRADE ELEVATION

KEYED NOTES

1. NEW HANDICAP RAMP
2. NEW SIDEWALK OPENING
3. NEW CONCRETE STEP
4. NEW CURB OPENING
5. NEW 24" CONCRETE SPILLWAY

NOTE: CONTRACTOR SHALL GRADE PROPOSED IMPROVEMENTS IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE IN ALL DIRECTIONS.

PAVING & GRADING PLAN

SCALE: 1" = 30'

M GARCIA ENGINEERING LLC
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STATE OF TEXAS MARIANO GARCIA 90956 REGISTERED PROFESSIONAL ENGINEER
06/08/18 P.E.
GMS ARCHITECTS
1150 Paredes Line Rd.
Brownsville TX 78526
(956) 546-0110
fax (956) 546-0196

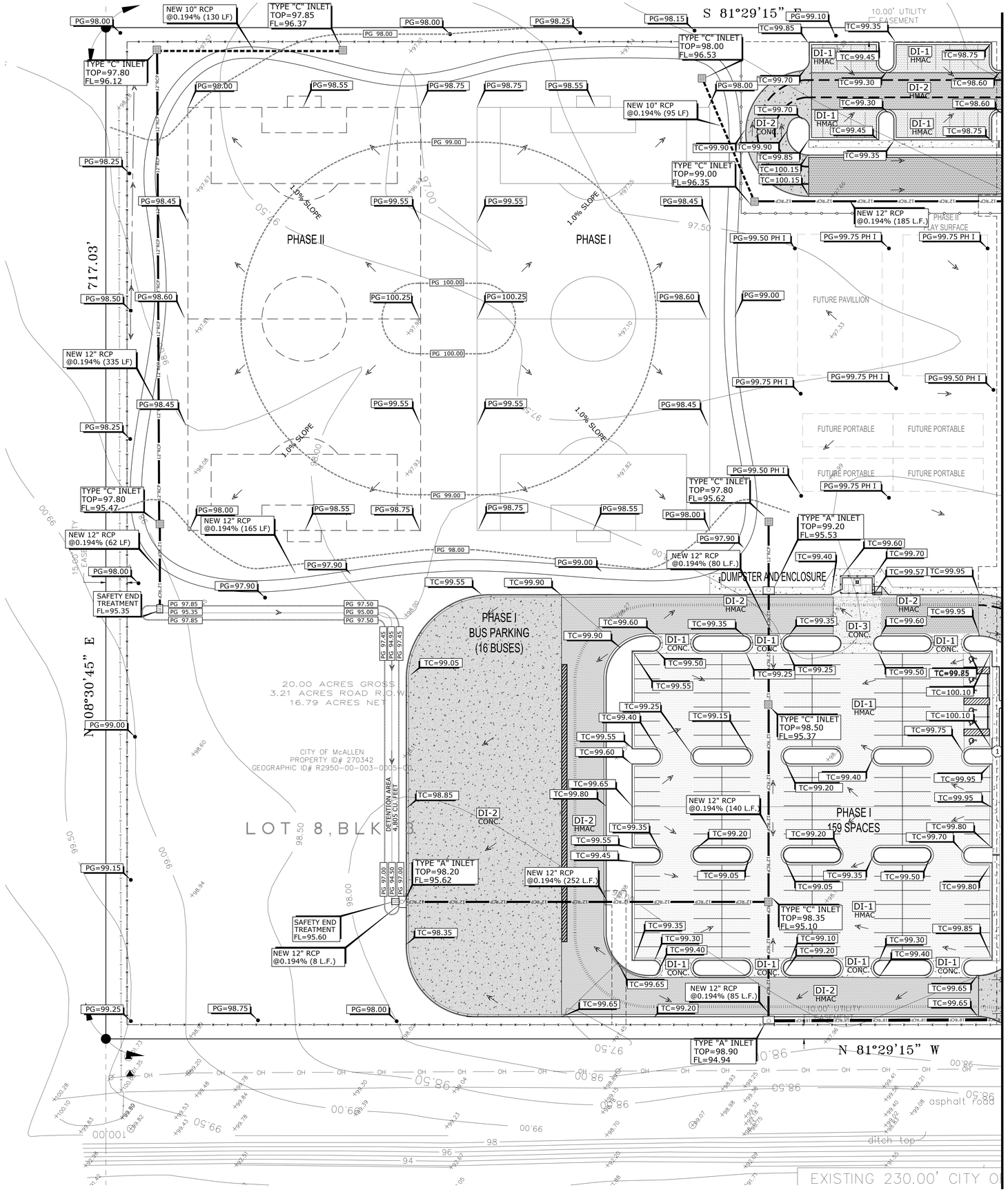
No.	REVISIONS	BY
ADD #1	ADDENDUM #4 DATE: 06/08/18	MGE

IDEA - SOUTH MCALLEN CAMPUS
PHASE I
MCALLEN, TEXAS

IDEA Public Schools

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Architects-Planners
Interior Designers

Date: JUNE 08, 2018
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Drawn By: MGG
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C5.0



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STATE OF TEXAS
MARIANO GARCIA
90906
REGISTERED PROFESSIONAL ENGINEER
06/08/18

No.	REVISIONS	BY
ADD #1	ADDENDUM #4 DATE: 06/08/18	MGE

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

IDEA-SOUTH MCALLEN CAMPUS PHASE I

MCALLEN, TEXAS

IDEA Public Schools

DRAINAGE REQUIREMENTS	
VOLUME REQUIRED:	119,120 CU. FT.
VOLUME PROVIDED:	133,068 CU. FT.

LEGEND

- FOUND 1/2 INCH IRON ROD
- SET 1/2 INCH IRON ROD
- FOUND PK NAIL
- SET COTTON PICKER SPINDLE
- EXISTING LIGHT POLE
- EXISTING POWER POLE
- EXISTING GUY WIRE
- EXISTING TEL. PEDESTAL
- EXISTING TRAFFIC SIGN
- EXISTING GAS METER
- EXISTING WATER METER
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- EXISTING IRRIGATION VALVE
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KEYED NOTES

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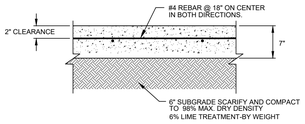
NOTE: CONTRACTOR SHALL GRADE PROPOSED IMPROVEMENTS IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE IN ALL DIRECTIONS.

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Interior Designers

Date:	JUNE 08, 2018
Scale:	As Noted
Civil Engineer:	Mariano Garcia, P.E.
Drawn By:	MGG
Job No.	17-167
	IDEA South McAllen Phase I
Sheet:	C5.1

PAVING & GRADING PLAN

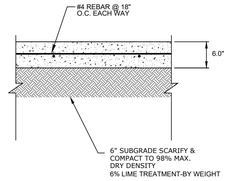
SCALE: 1"= 30'



REFER TO GEOTECHNICAL REPORT
TERRACON PROJECT NO. 88185004

3500 P.S.I. CONCRETE

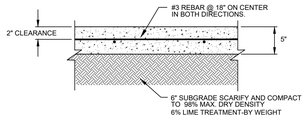
DI-3 (CONCRETE) | 20



REFER TO GEOTECHNICAL REPORT
TERRACON PROJECT NO. 88185004

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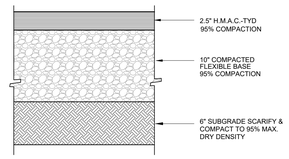
DI-2 (CONCRETE) | 16



REFER TO GEOTECHNICAL REPORT
TERRACON PROJECT NO. 88185004

3500 P.S.I. CONCRETE

DI-1 (CONCRETE) | 12

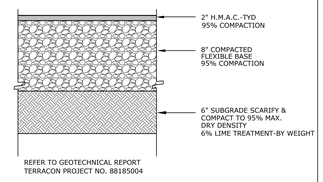


REFER TO GEOTECHNICAL REPORT
TERRACON PROJECT NO. 88185004

6% LIME TREATMENT-BY WEIGHT

NOTE:
1. HMAC SHALL CONFORM TO TXDOT 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES, ITEM 340, TY D
2. FLEXIBLE BASE MATERIAL SHALL CONFORM TO TXDOT 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES, ITEM 247, TYPES A OR D, GRADE 1 OR TXDOT 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES, ITEM 247, TYPES B OR C, GRADE 1 OR 2.

DI-2 (HMAC) | 10



REFER TO GEOTECHNICAL REPORT
TERRACON PROJECT NO. 88185004

NOTE:
1. HMAC SHALL CONFORM TO TXDOT 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES, ITEM 340, TY D
2. FLEXIBLE BASE MATERIAL SHALL CONFORM TO TXDOT 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES, ITEM 247, TYPES A OR D, GRADE 1 OR TXDOT 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES, ITEM 247, TYPES B OR C, GRADE 1 OR 2.

DI-1 (HMAC) | 5

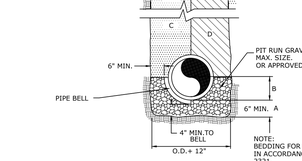
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06/08/18 P.E.

No.	REVISIONS	BY
	ADDENDUM #4 DATE: 06/08/18	MGE

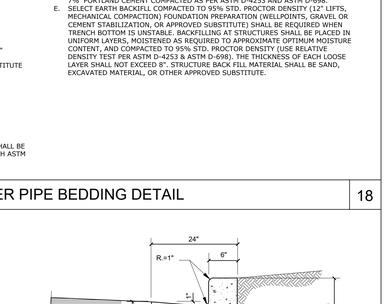
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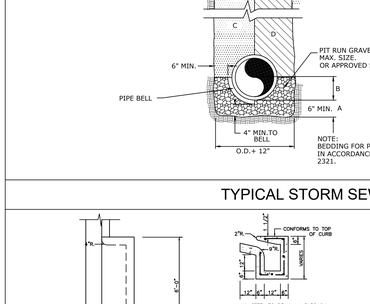
3500 P.S.I. CONCRETE

DUMPSTER PAD DETAIL | 21



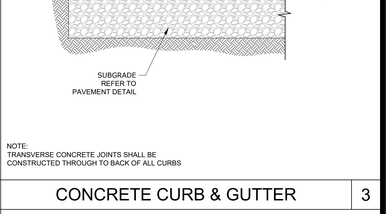
GENERAL NOTES:
1. REINFORCEMENT: #4 BARS AT 12" O.C. EACH WAY.
2. CONCRETE TO HAVE A MIN. 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I.
3. "H" DIMENSION AVAILABLE IN 6" INCREMENTS FROM 3'-0" TO 8'-0".
4. INLETS SHALL BE COMPOSED OF PRE-CAST SECTIONS, CAST IN PLACE OR A COMBINATION OF BOTH.
5. 6" GRAVEL BEDDING IS REQUIRED IF UNSTABLE SOIL OR GROUND WATER IS FOUND.
6. INCLUDE 12"X4" CONCRETE APRON AROUND PERIMETER OF INLET.

TYPE "CC" INLET | 13



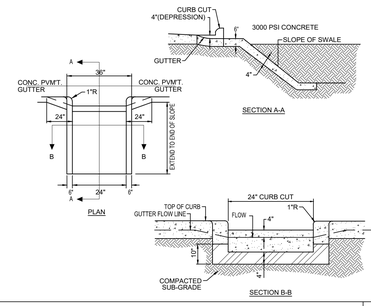
GENERAL NOTES:
1. REINFORCEMENT: #4 BARS AT 12" O.C. EACH WAY.
2. CONCRETE TO HAVE A MIN. 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I.
3. "H" DIMENSION AVAILABLE IN 6" INCREMENTS FROM 3'-0" TO 8'-0".
4. INLETS SHALL BE COMPOSED OF PRE-CAST SECTIONS, CAST IN PLACE OR A COMBINATION OF BOTH.
5. 6" GRAVEL BEDDING IS REQUIRED IF UNSTABLE SOIL OR GROUND WATER IS FOUND.
6. INCLUDE 12"X4" CONCRETE APRON AROUND PERIMETER OF INLET.

TYPE "C" GRATE INLET | 6

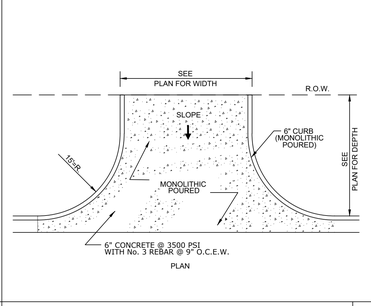


SIDEWALK NOTES:
1. MINIMUM 5'-0" WIDE SIDEWALK.
2. SIDEWALK GRADIENT SHALL NOT EXCEED 1:20.
3. SIDEWALK CONCRETE SHALL BE 5 SACK CEMENT MIX AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 psi.
4. CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF EXISTING UTILITY LINES WITH APPROPRIATE COMPANIES TO AVOID PLACING SIDEWALKS ON TOP OF LINES.
5. PROVIDE DROP CURBS AT INTERSECTIONS.
6. CONTRACTOR SHALL COMPLY WITH LATEST REGULATIONS AS SET FORTH IN AMERICANS WITH DISABILITIES ACT (ADA)
7. WHERE ADJACENT TO PAVEMENT, PROVIDE A THICKENED EDGE 8 (EIGHT) INCHES DEEP AND 6 (SIX) INCHES WIDE REINFORCED WITH NO. 3 REBAR.
8. PROVIDE EXPANSION JOINT MATERIAL WHERE SIDEWALK MEETS NEW AND EXISTING BUILDING.

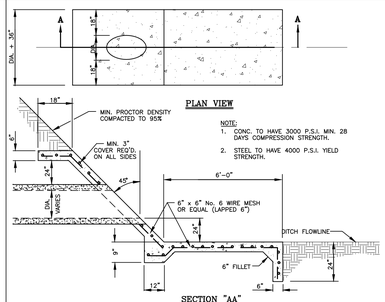
SIDEWALK DETAILS | 1



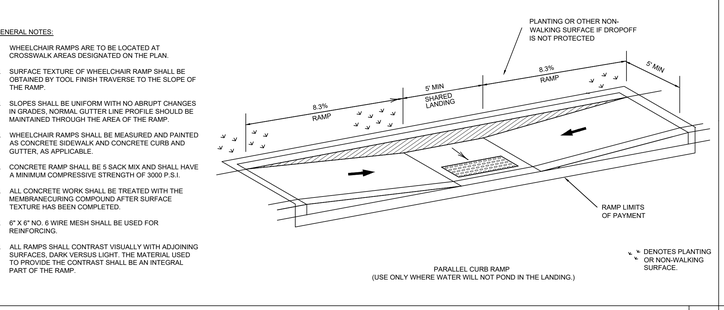
SPILLWAY DETAIL | 22



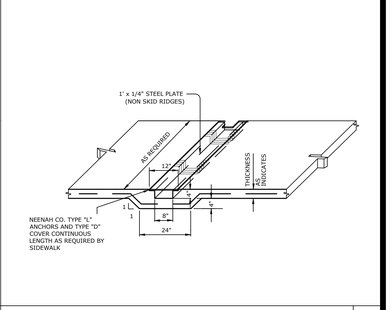
TxDOT APRON | 17



STORM DISCHARGE STRUCTURE | 14



SIDEWALK RAMP | 7

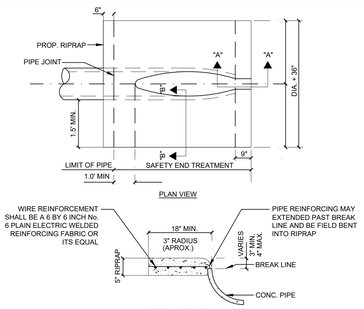


SIDEWALK OPENING DETAIL | 2

NOTE:
BEDDING FOR PVC SHALL BE IN ACCORDANCE WITH ASTM 2321.

A. GRAVEL BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE (MIN. THICKNESS=6") PIT RUN GRAVEL 3/4" MAX SIZE.
B. GRAVEL PLACED AFTER PIPE IS LAID, FROM BOTTOM OF PIPE TO THE SPRING LINE. PIT RUN GRAVEL 3/4" MAX. SIZE OR APPROVED SUBSTITUTE.
C. CITY STREETS PARKING AREA, DRIVEWAYS: SELECT EXCAVATED BACK FILL COMPACTED 95% STD, 8" LIFTS, MECHANICAL COMPACTION. 8" FLEXIBLE BASE MINIMUM OR AS EXISTING,
D. STATE MAINTAINED ROADWAYS: COMPACTED SAND/CEMENT STABILIZED BACK FILL 7% PORTLAND CEMENT COMPACTED AS PER ASTM D-4253 AND ASTM D-698.
E. SELECT EARTH BACKFILL COMPACTED TO 95% STD. PROCTOR DENSITY (12" LIFTS, MECHANICAL COMPACTION) FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STD. PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 8". STRUCTURE BACK FILL MATERIAL SHALL BE SAND, EXCAVATED MATERIAL, OR OTHER APPROVED SUBSTITUTE.

TYPICAL STORM SEWER PIPE BEDDING DETAIL | 18



TYPICAL STORM SEWER PIPE BEDDING DETAIL | 15

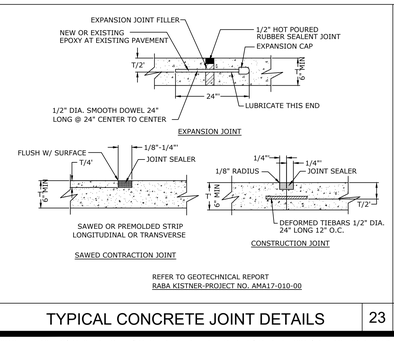
NOTE:
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C. CITY STREETS PARKING AREA, DRIVEWAYS: SELECT EXCAVATED BACK FILL COMPACTED 95% STD, 8" LIFTS, MECHANICAL COMPACTION. 8" FLEXIBLE BASE MINIMUM OR AS EXISTING,
D. STATE MAINTAINED ROADWAYS: COMPACTED SAND/CEMENT STABILIZED BACK FILL 7% PORTLAND CEMENT COMPACTED AS PER ASTM D-4253 AND ASTM D-698.
E. SELECT EARTH BACKFILL COMPACTED TO 95% STD. PROCTOR DENSITY (12" LIFTS, MECHANICAL COMPACTION) FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STD. PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 8". STRUCTURE BACK FILL MATERIAL SHALL BE SAND, EXCAVATED MATERIAL, OR OTHER APPROVED SUBSTITUTE.

TYPICAL STORM SEWER PIPE BEDDING DETAIL | 8

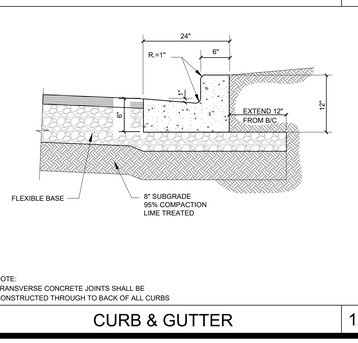
NOTE:
TRANSVERSE CONCRETE JOINTS SHALL BE CONSTRUCTED THROUGH TO BACK OF ALL CURBS

CONCRETE CURB & GUTTER | 3



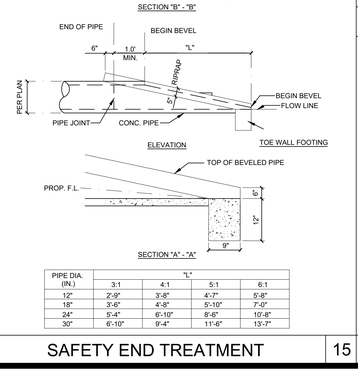
REFER TO GEOTECHNICAL REPORT
RABA KISTNER-PROJECT NO. AMA17-010-00

TYPICAL CONCRETE JOINT DETAILS | 23



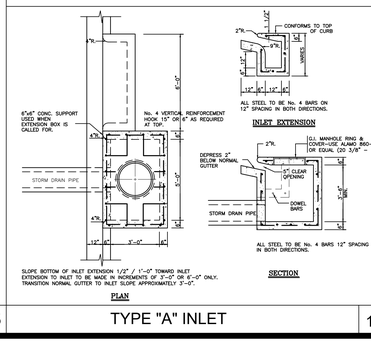
NOTE:
TRANSVERSE CONCRETE JOINTS SHALL BE CONSTRUCTED THROUGH TO BACK OF ALL CURBS

CURB & GUTTER | 19

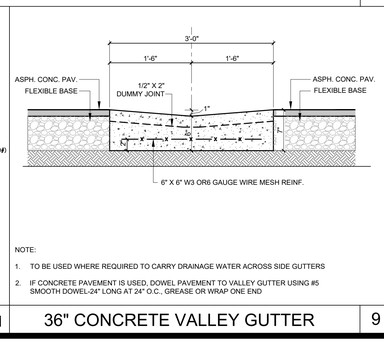


PIPE DIA. (IN.)	"L"			
	3:1	4:1	5:1	6:1
12"	2'-9"	3'-8"	4'-7"	5'-6"
18"	3'-6"	4'-8"	5'-10"	7'-0"
24"	5'-4"	6'-10"	8'-6"	10'-8"
30"	6'-10"	9'-4"	11'-6"	13'-7"

SAFETY END TREATMENT | 15

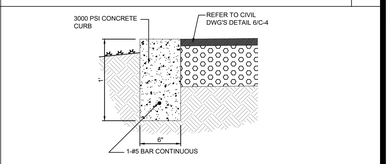


TYPE "A" INLET | 11



NOTE:
1. TO BE USED WHERE REQUIRED TO CARRY DRAINAGE WATER ACROSS SIDE GUTTERS
2. IF CONCRETE PAVEMENT IS USED, DOWEL PAVEMENT TO VALLEY GUTTER USING #5 SMOOTH DOWEL-24" LONG AT 24" O.C., GREASE OR WRAP ONE END

36" CONCRETE VALLEY GUTTER | 9



MULTI SPORT BLACK TOP | 4

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Architects-Planners
Interior Designers

Date: JUNE 08, 2018
Scale: As Noted
Civil Engineer: Mariano Garcia, P.E.
Drawn By: MGG
Job No. 17-167
Sheet: IDEA South McAllen Phase I

C5.2

PAVING & GRADING DETAILS

SCALE: NTS

IDEA - SOUTH MCALLEN CAMPUS
PHASE I
MCALLEN, TEXAS

IDEA Public Schools

Jun 08, 2018 – 3:12pmS:\M Garcia Server\M Garcia Engineering Projects\Projects 2017\17-167 IDEA Public Schools South McAllen\Civil\17167 C5.2 Paving & Grading Details.dwg

M GARCIA ENGINEERING LLC
CIVIL ENGINEERING
400 W. Nolana Suite H.2 McAllen, Texas 78504
Bus. 956.687.9421 Fax 956.687.3211
www.mgarciaengineering.com TBPE FIRM REG. No. F-9 8 2 8

No.	REVISIONS	BY
	ADDENDUM #4 DATE: 06/08/18	MGE

STATE OF TEXAS
MARIANO GARCIA
90908
REGISTERED PROFESSIONAL ENGINEER
06/08/18 P.E.

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

S 81°29'15" E 1,215.02'

N 81°29'15" W 1,215.02'

N 08°30'45" E 717.03'

S 08°30'45" W 717.03'

10.00' UTILITY EASEMENT

15.00' UTILITY EASEMENT

PHASE II

PHASE I

PHASE I
78 SPACES

PHASE I
PLAY SURFACE

FUTURE PAVILLION

FUTURE PORTABLE

PHASE I I

PHASE I

DUMPSTER AND ENCLOSURE

PHASE I
BUS PARKING
(16 BUSES)

20.00 ACRES GROSS
3.21 ACRES ROAD R.O.W.
16.79 ACRES NET

CITY OF McALLEN
PROPERTY ID# 270342
GEOGRAPHIC ID# R2950-00-003-0005-01

LOT 8, BLK 3

PHASE I
159 SPACES

APHONE ACCESS

Entry gate w/ video intercom

15' x 15'
WASH OUT

EXIT ONLY

8 SPACES

FUTURE LEARNING SPACE (FOOTPRINT)

PHASE I
ACADEMY MULTI SPORT
BLACK TOP 50'X24'

PHASE I
ACADEMY PLAY
AREA 50'X60'

FUTURE GARDEN (FOOTPRINT)

FUTURE PARCOURSE

105.0' STATE OF TEXAS R.O.W. DOCUMENT NO. 687928 & DOCUMENT NO. 716837 OFFICIAL RECORDS (SAVE AND EXCEPT)

135.00' EXIST. R.O.W.

30.0'

15.0' ADDITIONAL R.O.W.

QUETA AVE.

asphalt road

asphalt drive

156

157

113

112

69

68

25

EXIST. CURB INLET TOP = 97.70' FL = 89.23'

EXIST. MANHOLE TOP = 98.72' NORTH FL = 85.' SOUTH FL = 85.'

EXIST. MANHOLE

48" RCP

21" PVC

18" RCP

LEGEND

SF	NEW SEDIMENT CONTROL FENCE
CE	NEW CONSTRUCTION ENTRANCE
L	NEW EROSION CONTROL LOG
F	NEW INLET SEDIMENT CONTROL FENCE

N
W MGE E
S

EROSION & SEDIMENT LAYOUT

SCALE: 1"=40'

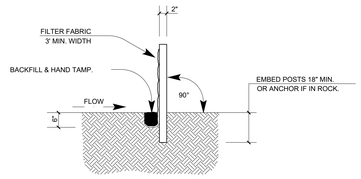
IDEA - SOUTH MCALLEN CAMPUS PHASE I

MCALLEN, TEXAS

IDEA Public Schools

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Interior Designers

Date: JUNE 08, 2018
Scale: As Noted
Civil Engineer: Mariano Garcia, P.E.
Drawn By: MGG
Job No: 17-167
IDEA South McAllen Phase I
Sheet: C6.0



SECTION A-A

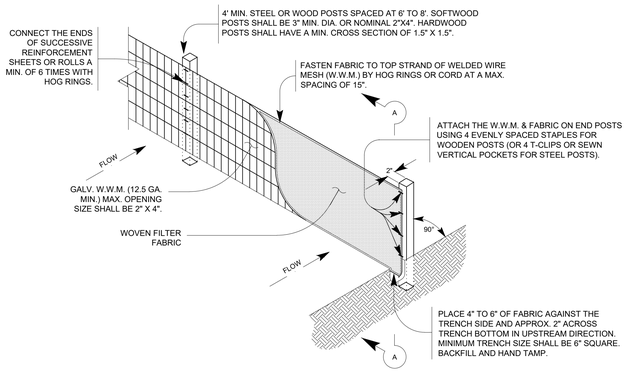
SEDIMENT CONTROL FENCE USAGE GUIDELINES

A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2-YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

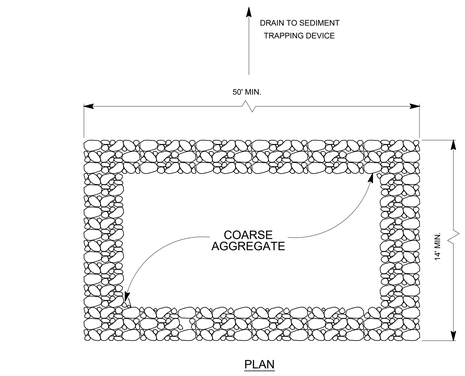
SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN TWO ACRES.

GENERAL NOTES :

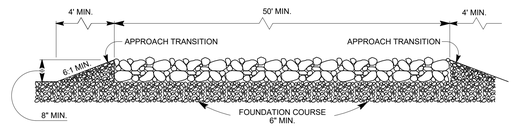
1. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.



TEMPORARY SEDIMENT CONTROL FENCE | 3



PLAN

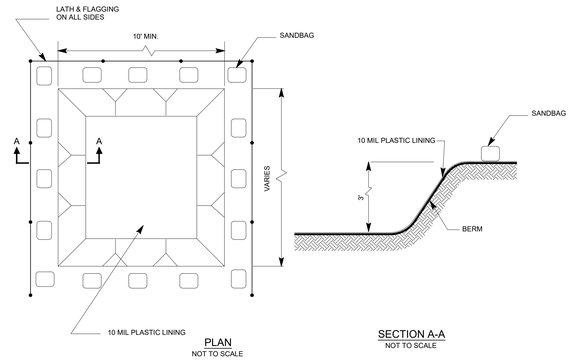


PROFILE

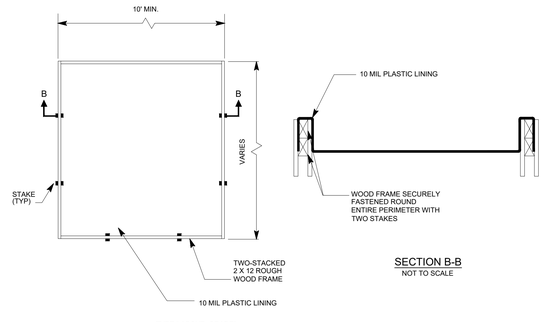
GENERAL NOTES

1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT (TYPE 1) | 2



TYPE " BELOW GRADE"



TYPE " ABOVE GRADE"

GENERAL NOTES:

1. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY WASHOUT FACILITY.
2. ACTUAL LAYOUT TO BE DETERMINED IN FIELD.

TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE)

1. TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE) SHOULD BE CONSTRUCTED AS SHOWN ON THE DETAIL PROVIDED, WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FT; HOWEVER SMALLER SITES OR JOBS MAY ONLY NEED A SMALLER WASHOUT FACILITY. WITH ANY WASHOUT, ALWAYS MAINTAIN A SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

2. MATERIALS USED TO CONSTRUCT THE WASHOUT AREA SHOULD CONFORM TO THE PROVISIONS DETAILED.

3. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

4. ALTERNATIVELY, PORTABLE REMOVABLE CONTAINERS CAN BE USED AS ABOVE GRADE CONCRETE WASHOUTS. ALSO CALLED A "ROLL-OFF": THIS CONCRETE WASHOUT FACILITY SHOULD BE PROPERLY SEALED TO PREVENT LEAKAGE, AND SHOULD BE REMOVED FROM THE SITE AND REPLACED WHEN THE CONTAINERS REACHES 75% CAPACITY.

TEMPORARY CONCRETE WASHOUT FACILITY (TYPE BELOW GRADE)

1. TEMPORARY CONCRETE WASHOUT FACILITY (TYPE BELOW GRADE) SHOULD BE CONSTRUCTED AS SHOWN ON THE DETAIL PROVIDED, WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FT; THE QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

2. LATH AND FLAGGING SHOULD BE COMMERCIAL TYPE.

3. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

INSPECTION & MAINTENANCE

1. TEMPORAL CONCRETE WASHOUT FACILITIES SHALL BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 4" FOR ABOVE GRADE FACILITIES AND 12" FOR BELOW GRADE FACILITIES. MAINTAINING TEMPORARY WASHOUT FACILITIES SHOULD INCLUDE REMOVING AND DISPOSING OF HARDENING CONCRETE AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION. HARDENING CONCRETE MATERIALS SHOULD BE REMOVED AND PROPERLY DISPOSED OR RECYCLED IN ACCORDANCE TO FEDERAL, STATE, OR LOCAL REGULATIONS.

2. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS AT 75% FULL.

3. INSPECT WASHOUT FACILITIES FOR DAMAGE (E.G. TORN LINER, EVIDENCE OF LEAKS, SIGNAGE ETC.) REPAIR ALL IDENTIFIED DAMAGE.

REMOVAL OF TEMPORARY CONCRETE WASHOUT FACILITIES

1. WHEN TEMPORARY CONCRETE WASHOUT FACILITY IS NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND PROPERLY DISPOSED OR RECYCLED IN ACCORDANCE WITH FEDERAL, STATE OR LOCAL REGULATIONS. MATERIALS USED TO CONSTRUCT TEMPORARY WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND PROPERLY DISPOSED OR RECYCLED IN ACCORDANCE WITH FEDERAL, STATE, OR LOCAL REGULATIONS.

TEMPORARY CONCRETE WASHOUT | 1

M GARCIA ENGINEERING LLC
CIVIL ENGINEERING
400 W. Nolana Suite H.2 McAllen, Texas 78504
Bus. 956.687.9421 Fax 956.687.3211
www.mgarciaengineering.com TBPE FIRM REG. No. F-9 8 2 8

STATE OF TEXAS
MARIANO GARCIA
90906
REGISTERED PROFESSIONAL ENGINEER
06/08/18 P.E.

No.	REVISIONS	BY
	ADDENDUM #4 DATE: 06/08/18	MGE

GMS ARCHITECTS
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(956) 546-0110
fax (956) 546-0196

IDEA - SOUTH MCALLEN PHASE I
MCALLEN, TEXAS

IDEA Public Schools

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Architects-Planners
Interior Designers

Date: JUNE 08, 2018
Scale: As Noted
Civil Engineer: Mariano Garcia, P.E.
Drawn By: MGG
Job No. 17-167
IDEA South McAllen Phase I
Sheet: C6.1

EROSION & SEDIMENT DETAILS
SCALE: 1"=50'

E
119 W. Van Buren Ave. Ste. 101
Harlingen, TX 78550
Off: (956) 230-3435
Fax: (956) 720-0830
www.ethoseng.net





June 08, 2018
Idea – South McAllen Campus Phase I

ADDENDUM NO. 4

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. Drawings:

1) Sheet MEP1.01:
   a) Revised MEP Site Plan. See attached sheet.

2) Sheet E2.01:
   a) Wiring Device Symbol Legend: Duplex Isolated Ground Type - Provide Hubbell model IG535TR in lieu.

3) Sheet E3.02:
   a) Revised First Floor Lighting Plan. See attached sheet.

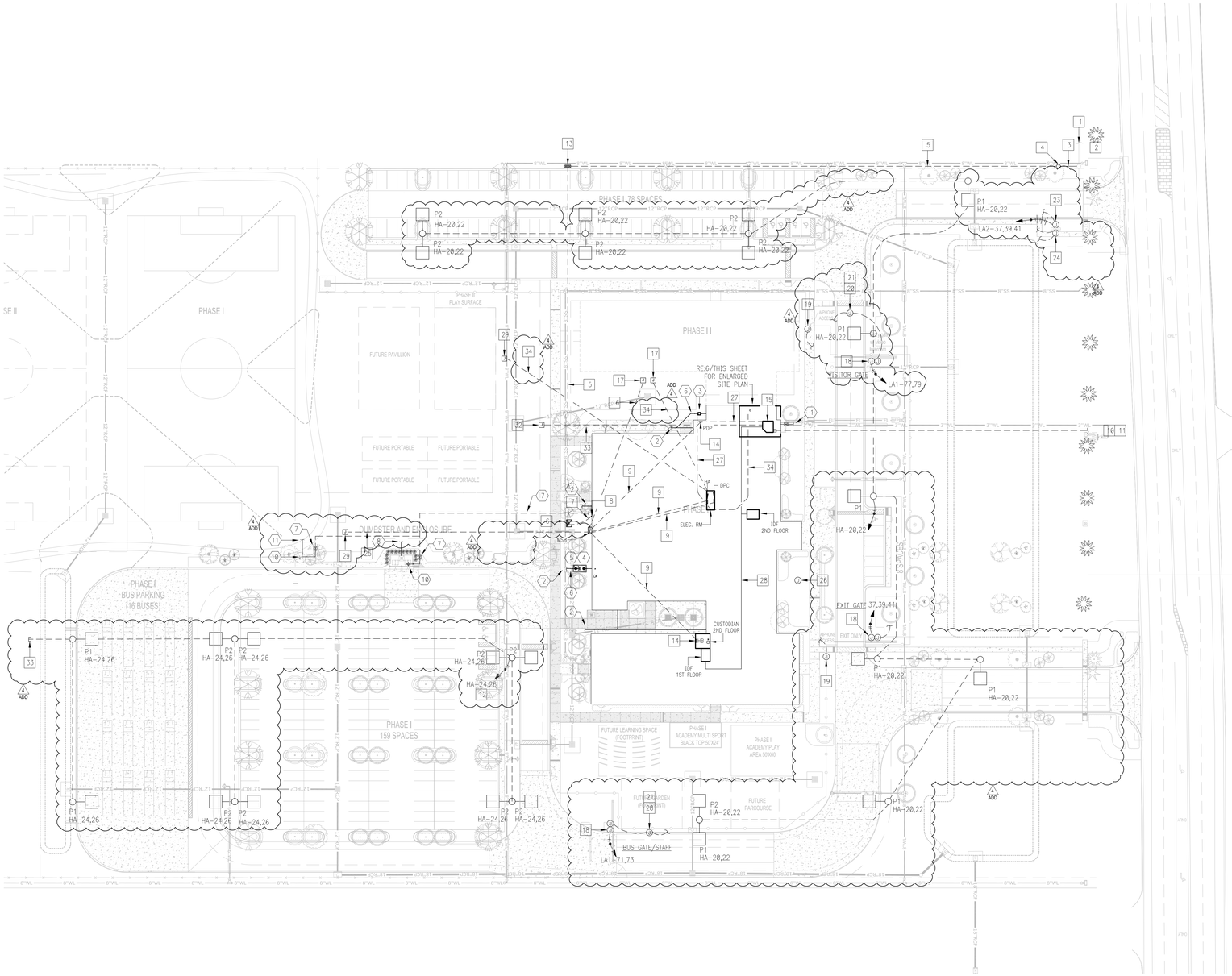
4) Sheet E4.04:
   a) Revised Second Floor Electrical Plan. See attached sheet.

5) Sheet E7.01:
   Revised Electrical Riser Diagram. See attached sheet.

6) Sheet E8.03:
   a) Revised Panel Schedules. See attached sheet.

7) Sheet E9.03:
   a) Revised Electrical Details. See attached sheet.

8) Sheet P5.01:
   a) Revised Plumbing Roof Plan & the associated General Notes. See attached sheet.



01 M.E.P. SITE PLAN

SCALE: 1"=50'-0"

NORTH

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 CLARIFICATION WILL BE ISSUED.
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.
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 PERMITS.
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.
18. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.
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.
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.

FIRE SUPPRESSION KEYED NOTES:

1. PROVIDE NEW 6" FIRE SPRINKLER LINE. REFER TO CIVIL DRAWING FOR FIRE LINE CONTINUATION. VERIFY SIZE OF FIRE SPRINKLER LINE BY MEANS OF CALCULATION AND COORDINATE WITH GENERAL CONTRACTOR. COORDINATE FREE STANDING FDC AND PROVISION OF BACKFLOW PREVENTER WITH CIVIL. REFER TO PLUMBING SHEETS AND SPECIFICATIONS FOR MORE INFORMATION. FIRE SPRINKLER SYSTEM SHALL BE SIZED TO SERVE BUILDINGS UNDER THIS CONTRACT AND A FUTURE TWO STORY CLASSROOM WING OF AN APPROXIMATE 35,000 SQ.FT AREA. PROVIDE HEADERS, VALVES, BRANCHES, ETC. AS NECESSARY TO ACCOMMODATE FUTURE ADDITION.
2. PROVIDE DEDICATED FIRE SPRINKLER LINE FROM FIRE RISER ROOM TO END OF HALLWAY. FIRE SPRINKLER LINE SHALL BE SIZED TO SERVE FUTURE TWO STORY CLASSROOM WING OF AN APPROXIMATE 35,000 SQ.FT AREA. PROVIDE HEADERS, VALVES, BRANCHES, ETC. AS NECESSARY TO ACCOMMODATE FUTURE ADDITION. COORDINATE WITH A/E TEAM DURING SHOP DRAWING SUBMITTAL PHASE.

ELECTRICAL KEYED NOTES:

1. EXISTING ELECTRIC 3ø UTILITY OVERHEAD SERVICE LINES.
2. EXISTING ELECTRIC UTILITY POWER POLE.
3. PROVIDE NEW OVERHEAD UTILITY POWER LINE.
4. PROVIDE NEW ELECTRIC UTILITY POWER POLE WITH RISER DIP POLE.
5. PROVIDE NEW UNDERGROUND PRIMARY ELECTRIC CONDUITS WITH 2" RED CONCRETE. CONDUCTORS BY ELECTRICAL UTILITY.
6. PROVIDE NEW ELECTRIC UTILITY PAD MOUNT TRANSFORMER CONCRETE PAD.
7. PROVIDE NEW UNDERGROUND SECONDARY ELECTRIC LINE AND WITH 2" RED CONCRETE TOPPING.
8. PROVIDE NEW ELECTRIC UTILITY SERVICE METER.
9. PROVIDE NEW FEEDER TO NEW PANELBOARDS.
10. PROVIDE 4" TELEPHONE RACEWAY WITH PULLWIRE TO EXISTING TELEPHONE PEDESTAL. ROUTE TO BUILDING & TERMINATE IN M.D.F. ROOM. PRIOR TO TRENCHING COORDINATE TERMINATION POINT WITH AT&T.
11. PROVIDE 4" CCTV RACEWAY WITH PULLWIRE. CAP BELOW GRADE AT PROPERTY LINE, & ROUTE TO BUILDING & TERMINATE IN M.D.F. ROOM. PRIOR TO TRENCHING COORDINATE TERMINATION POINT WITH SPECTRUM.
12. SWITCH EXTERIOR POLE LIGHTS THROUGH LIGHTING CONTROL RELAY PANEL. BRANCH CIRCUIT: 1" – 2#8 & #10G. SEE CORRESPONDING PANEL SCHEDULE.
13. PROVIDE 1-1" RACEWAY WITH PULLWIRE – (ELEVATOR SERVICE ALERT PANEL)
14. RISE UP AT NEAREST WALL CAVITY UP TO PANELBOARDS.
15. RACEWAYS TO RISE AT MDF WIREWAY. SEE ENLARGED IDF ELECTRICAL PLANS ON SHEETS E4.02.
16. PROVIDE 2-4" RACEWAYS WITH PULLWIRE FROM SWITCHBOARD "MSB" FOR FUTURE USE.
17. PROVIDE NEW 36"X36" TIER 22 RATED POLYMER CONCRETE PULL BOX WITH "ELECTRICAL" COVER LOGO – SEE DETAIL.
18. CONNECT ELECTRIC PUMP/DRIVE UNIT (208V, 1ø); BRANCH CIRCUIT: 2" – 2#4 & #8G (208V). 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 E9.03.
19. PROVIDE VIDEO ENTRY DOOR STATION. SEE DETAIL ON SHEET E9.03
20. ACCESS CONTROL PEDESTAL. SEE DETAIL ON SHEET E9.03.
21. PROVIDE VIDEO DOOR STATION. SEE DETAIL ON SHEET E9.03.
22. PROVIDE POLE LIGHTS AS SCHEDULED – TYPICAL. SEE DETAIL.
23. CONNECT MARQUEE SIGN; BRANCH CIRCUIT: 2"-6 #4 & #8G; 3 BRANCH CIRCUITS.
24. PROVIDE 1" RACEWAY WITH PULLWIRE AND J-BOX (SIGN CONTROLS). STUB-UP 6" AFF AT MDF WIREWAY.
25. PROVIDE 1-4" RACEWAYS WITH PULLWIRE FROM SWITCHBOARD "MSB" FOR FUTURE USE.
26. PROVIDE FLAG POLE LIGHTING – SEE DETAIL. SWITCH LIGHTS THROUGH THE LIGHTING CONTROL RELAY PANEL; BRANCH CIRCUIT: 1" – 2#10 & #10G.
27. PROVIDE 1-1" RACEWAY WITH PULLWIRE – (INTERCEPTOR SERVICE ALERT PANEL)
28. PROVIDE 4" RACEWAY WITH PULLWIRE (FIBER OPTIC CABLE). ROUTE ABOVE ACCESSIBLE CEILING SPACE. PROVIDE TO EACH IDF ROOM 1ST AND SECOND FLOOR. SEE DETAIL.
29. PROVIDE NEW 24"X24" TIER 22 RATED POLYMER CONCRETE PULL BOX WITH "ELECTRICAL" COVER LOGO – SEE DETAIL.
30. PROVIDE NEW 36"X36" TIER 22 RATED POLYMER CONCRETE PULL BOX WITH "COMMUNICATIONS" COVER LOGO – SEE DETAIL.
31. 1-2" RACEWAY WITH PULLWIRE – (F.A. RACEWAYS)
    1-2" RACEWAY WITH PULLWIRE – (INTERCOM)
    1-2" RACEWAY WITH PULLWIRE – (INTRUSION)
    1-4" RACEWAY WITH PULLWIRE – (DATA)
32. PROVIDE CONDUIT TO PANEL LA1 FOR FUTURE GATE.
33. PROVIDE 1-1/4" ELECTRICAL CONDUIT FOR FUTURE LIGHTING.
34. PROVIDE 1"-4" WITH PULLWIRE FROM PANEL DPC.

PLUMBING KEYED NOTES:

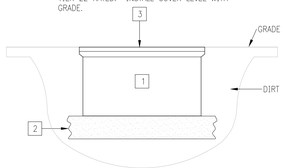
1. PROVIDE 3" DOMESTIC WATER LINE. SEE CIVIL DRAWINGS FOR CONNECTION AND CONTINUATION.
2. PROVIDE 4" SANITARY SEWER LINE. PROVIDE TWO WAY YARD CLEANOUT (NOT SHOWN FOR CLARITY). SEE CIVIL DRAWINGS FOR CONNECTION AND CONTINUATION.
3. APPROXIMATE LOCATION OF OIL/WATER SEPARATOR. COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR.
4. APPROXIMATE LOCATION OF GREASE INTERCEPTOR. COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR.
5. PROVIDE GREASE INTERCEPTOR (GT-1). PROVIDE TIGHT-SEAL COVERS. PRIOR TO INSTALLATION COORDINATE PIPING SLOPE, TRENCHING AND BACKFILLING WITH CIVIL. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR TO AVOID CONFLICT WITH CURBS AND SIDEWALKS. SEE ASSOCIATED DETAIL ON DETAIL SHEET FOR MODEL No. & MANUFACTURER.
6. PROVIDE SAMPLE WELL AS PER DETAIL.
7. PROVIDE LINE SIZE VALVE IN QUAZITE BOX.
8. PROVIDE 4" SANITARY SEWER WITH FLOOR DRAIN AT DUMPSTER CATCH BASIN AS PER DETAIL. REFER TO DETAIL SHEET. REFER TO CIVIL FOR SEWER LINE CONTINUATION.
9. SPLASH BLOCK DISCHARGING AT THIS APPROXIMATE LOCATION. REFER TO PLUMBING PLAN FOR MORE INFORMATION.

PLUMBING KEYED NOTES (CONTINUATION)

10. PROVIDE PEDESTAL TYPE DRINKING FOUNTAIN WITH BOTTLE FILLING STATION AT SOCCER FIELDS MODEL NUMBER ELKAY OUTDOOR EZH20/LK4430BFTM OR APPROVED EQUAL. COORDINATE COLOR OF PEDESTAL WITH OWNER AND ARCHITECT. SERVE PEDESTAL TYPE DRINKING FOUNTAIN WITH 3/4" WATER LINE. PROVIDE TRANSITION FITTINGS AS NECESSARY. PRIOR INSTALLATION, COORDINATE EXACT LOCATION OF PEDESTAL WITH OWNER. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR TO AVOID CONFLICT WITH CURBS AND SIDEWALKS.
11. PROVIDE 2" UNDERGROUND SANITARY SEWER LINE TO SERVE DRINKING FOUNTAIN. CONNECT TO SANITARY SEWER DISTRIBUTION SYSTEM AT THIS LOCATION. COORDINATE WITH UTILITY CONTRACTOR.

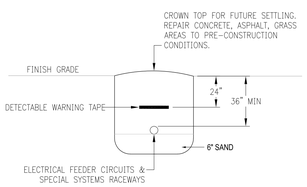
KEYED NOTES:

1. PROVIDE POLYMER CONCRETE PULL BOX TIER 22 RATED. COMPLYING WITH ANSI/SCTE 77 AND NEC 314.30.
2. PROVIDE 8" OF GRAVEL OR CRUSHED ROCK.
3. PROVIDE ONE PIECE LOCKING COVER WITH LOGO TIER 22 RATED. INSTALL COVER LEVEL WITH GRADE.



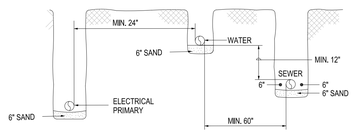
02 POLYMER CONCRETE PULLBOX DETAIL

SCALE :NONE



03 BURIAL DETAIL FOR ELECTRICAL RACEWAYS

SCALE :NONE



04 TRENCHING DETAIL

SCALE :NONE

CLEAR TRENCH OF ALL ROCKS AND DEBRIS BEFORE ADDING SAND CUSHION.

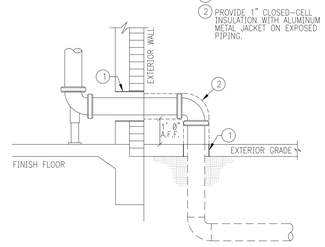
COMPACT TRENCH FILL TO 95% PROCTOR DENSITY.

MAINTAIN A MINIMUM OF 60 INCHES UNDISTURBED EARTH BETWEEN PARALLEL WATER AND SEWER LINES OR SUPPORT WATER LINE ON SEPARATE SHELF A MINIMUM OF 12" ABOVE SEWER LINE.

MAINTAIN A MINIMUM OF 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND SEWER. MAINTAIN A MINIMUM OF 12" VERTICALLY OR 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND WATER LINES, GAS LINES, TELEPHONE RACEWAYS AND CABLE RACEWAYS.

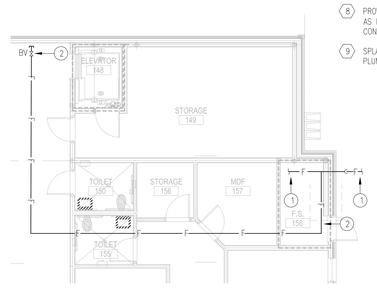
KEYED NOTES

1. SLEEVE.
2. PROVIDE 1" CLOSED-CELL INSULATION WITH ALUMINUM METAL JACKET ON EXPOSED PIPING.



05 FIRE RISER ENTRANCE DETAIL

SCALE :NOT TO SCALE



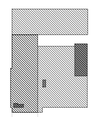
06 PARTIAL ENLARGED M.E.P. SITE PLAN

SCALE :NOT TO SCALE

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4 ADD	JUNE 08, 2018	

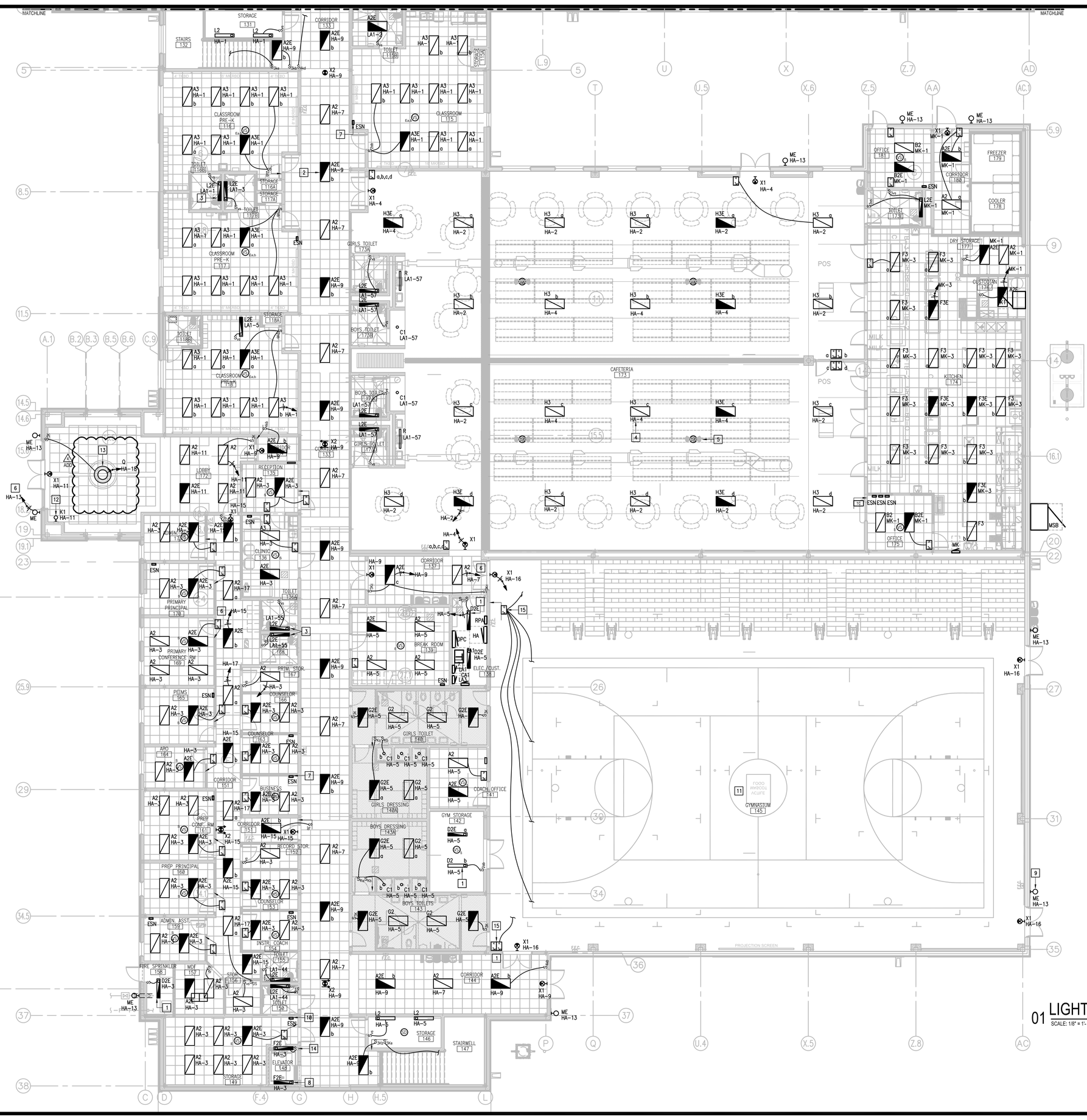
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IDEA-SOUTH MCALLEN CAMPUS
PHASE I
MCALLEN, TEXAS

IDEA Public Schools

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Date:	May 10, 2018
Scale:	As Noted
Project Architect:	David Monreal, AIA
Drawn By:	ETHOS
Job No.	IDEA South McAllen Phase I
Sheet:	MEP1.01



GENERAL NOTES:

1. LIGHTING BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" - 2#12 & #12G. 20A/277V HOMERUNS EXCEEDING 200FT THE WIRE SIZE SHALL BE #10 & #8 FOR 275'.
2. INTERIOR LIGHTING CONTROLS SHALL BE BY OCCUPANCY SENSORS.
3. MULTIPLE OCCUPANCY SENSORS CONTROLLING A SINGLE OR MULTIPLE SWITCH SCHEME AND POWER PACKS SHALL BE CONNECTED WITH CLASS II #18 WIRING IN 1/2" RACEWAY.
4. EXTERIOR LIGHTING CONTROLS SHALL BE BY LIGHTING MANAGEMENT PANEL.
5. PROVIDE 0-10V SIGNAL WIRING TO EACH DIMMED LIGHT FIXTURE DRIVER AND WALL SWITCH.
6. EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.

KEYED NOTES:

1. PROVIDE UNISTRUT/THREADED ROD AND SUSPEND LIGHT FIXTURE AT 9'-0"AFF. COORDINATE INSTALLATION WITH HVAC DUCT WORK.
2. CONNECT EMERGENCY BATTERY PACK TO BE CHARGING AT ALL TIMES (UNSWITCHED). LIGHT FIXTURE SHALL BE OPERATED BY THE CORRESPONDING SWITCH - TYPICAL.
3. MOUNT FIXTURE TYPE "L2E" AT 24" ABOVE MIRROR - TYPICAL.
4. SEE DETAIL 02/E9.03 FOR MOUNTING.
5. SURFACE MOUNT TO STRUCTURE STEEL JOIST - TYPICAL FOR THIS ROOM.
6. VIA CORRESPONDING LIGHTING CONTROL RELAY PANEL.
7. NO DUCTWORK OR PIPING TO BE ROUTED ABOVE PANELBOARDS. COORDINATE WITH OTHER TRADES - TYPICAL.
8. SEE ARCHITECTURAL DRAWINGS OF THE ELEVATOR PIT/SHAFT FOR THE EXACT LOCATION.
9. MOUNT LIGHT FIXTURE TYPE "ME" AT 8'-0"AFF TO CENTER OF FIXTURE - TYPICAL.
10. PROVIDE LIGHTING CONTROL PANEL (ESN) 12" ABOVE CEILING. SEE DETAIL 02/E8.05. CONNECT TO NEAREST 277V CIRCUIT - TYPICAL.
11. SEE SHEET E3.04 FOR LIGHTING.
12. PROVIDE EMERGENCY LIGHT FIXTURE WALL MOUNTED AT 8'-5" AFF.
13. SUSPEND LIGHT FIXTURES TYPE "Q" TO BOTTOM 17'-2" AFF.
14. PROVIDE 3-WAY LIGHT SWITCH LOCATED 4'-0" ABOVE BOTTOM LANDING NEXT TO TOP RUNG OF LADDER AND 3-WAY LIGHT SWITCH LOCATED 4'-0" ABOVE THE CONTROLLER LANDING FLOOR.
15. PROVIDE CLEAR LOCKING COVER.

01 LIGHTING PLAN (1ST FLOOR)

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

FUTURE PHASE III

KEYPLAN

No.	REVISIONS	BY
1	ADD	JUNE 08, 2018

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IDEA-SOUTH MCALLEN PHASE I

MCALLEN, TEXAS

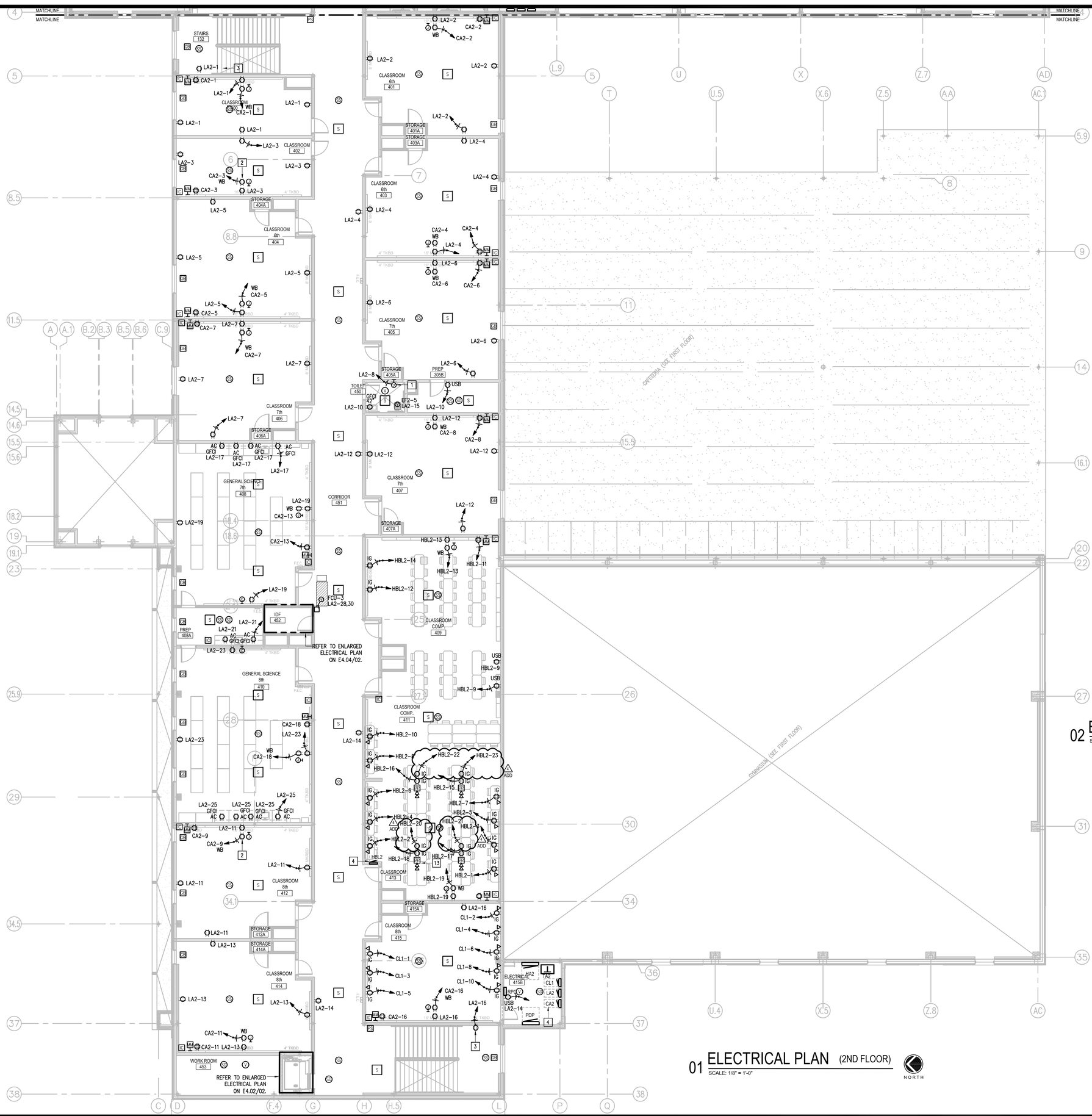
IDEA Public Schools

STATE OF TEXAS
RAY PEYNADO
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LICENSED PROFESSIONAL ENGINEER
5.10.2018

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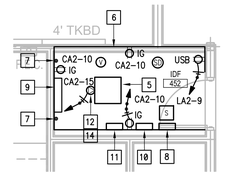
Date:	May. 10, 2018
Scale:	As Noted
Project Architect:	David Monreal, AIA
Drawn By:	ETHOS
Job No.	IDEA South McAllen Phase I
Sheet:	E3.02

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01 ELECTRICAL PLAN (2ND FLOOR)
SCALE: 1/8" = 1'-0"

NORTH



02 ELECTRICAL PLAN (ENLARGED IDF ROOM 242)
SCALE: 1/4" = 1'-0"

NORTH

GENERAL NOTES:

1. PROVIDE BRANCH CIRCUITS 3/4" – 2#12 & #12G (U.N.O.).
2. EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.
3. ELECTRICAL BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" – 2#12 & #12G. 20A/120V HOMERUNS EXCEEDING 100FT, THE WIRE SIZE SHALL BE #10 & #8 FOR 175'.
4. HOMERUNS – INSTALL NO MORE THAN THREE PER RACEWAY (INCLUDING LIGHTING BRANCH CIRCUITS); 3 INSULATED "HOT", 3 INSULATED "NEUTRAL AND 1 SHARED "GROUND".
5. PROVIDE ALL ELECTRICAL RECEPTACLES INSTALLED WITH THE GROUND OPENING IN THE "UP" POSITION.
6. PROVIDE J-HOOKS TO SUPPORT THE FIRE ALARM, INTRUSION DETECTION, VOICE, INTERCOM AND DATA CABLING.
7. PROVIDE FIRE STOPPING AT ALL FIRE WALL PENETRATIONS; PROVIDE EXPANSION PLATES & BONDING JUMPERS AT BUILDING EXPANSION JOINTS.
8. PROVIDE EACH ISOLATED GROUND CIRCUIT HOMERUN WITH A "HOT", DEDICATED NEUTRAL, ISOLATED GROUND (IG) AND A SHARED MECHANICAL GROUND.
9. PROVIDE ISOLATED GROUND (IG) RECEPTACLES WITH 4 INSULATED CONDUCTORS, "HOT", NEUTRAL, ISOLATED GROUND (IG) AND EQUIPMENT GROUND THAT CONNECTS TO THE BOX ENCLOSURE. PROVIDE ISOLATED GROUND CONDUCTOR WITH A YELLOW TRACER.
10. THERE SHALL BE NO SPLICES IN THE ISOLATED GROUND (IG) FEEDING THE (IG) BUSS.
11. PROVIDE 1-2" RACEWAY (SLEEVE) 12" ABOVE CEILING AT ALL CLASSROOMS, RESTROOMS, OFFICES, ETC. DOORS THAT LEAD TO CORRIDORS (FLOOR TO CEILING WALLS) FOR SPECIAL SYSTEMS WIRING.
12. USE TAMPER RESISTANT RECEPTACLES THROUGHOUT.
13. EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.

KEYED NOTES:

1. PROVIDE INFRARED RECESSED MOUNTED HAND DRYER. HAND DRYER SHALL BE BOBRICK B-750 (NO SUBSTITUTION). BRANCH CIRCUIT: 3/4" C 2#10 & #10G. MOUNT @ +40" A.F.F. (BOTTOM). VERIFY THE EXACT LOCATION WITH THE ARCHITECTURAL PLANS.
2. PROVIDE ELECTRICAL OUTLET FLUSH MOUNTED TO THE WALL ABOVE WHITE BOARD FOR PROJECTOR – TYPICAL. INSTALL OUTLET AND SPECIAL SYSTEMS J-BOX PER MANUFACTURERS PUBLISHED TEMPLATES – SEE DETAILS.
3. MOUNTING HEIGHT TO BE FROM TOP OF LANDING.
4. NO DUCTWORK OR PIPING TO BE ROUTED ABOVE ELECTRICAL GEAR. COORDINATE WITH OTHER TRADES – TYPICAL.
5. DATA RACK – PROVIDED BY OWNER.
6. PROVIDE 3/4" X 4', PLYWOOD TELEPHONE/DATA BOARD ON ALL WALLS. FIRE RESISTIVE TREATED (A-D INT-APA). MOUNT AT 24" AFF.
7. PROVIDE GROUND BUS BAR. REFER TO GROUNDING ELECTRICAL RISER DIAGRAM.
8. PROVIDE INTRUSION DETECTION SYSTEM POWER SUPPLY; BRANCH CIRCUIT: 1/2 – 2#12 & #12G.
9. PROVIDE 6"H X 6"D (WIDTH AS REQUIRED) SURFACE MOUNTED WIREWAY WITH HINGED COVER. ROUTE SPECIAL SYSTEMS RACEWAYS TO THIS LOCATION – SEE SITE PLAN AND DETAIL.
10. PROVIDE FIRE ALARM POWER SUPPLY, BRANCH CIRCUIT: 1/2" – 2-#12 & #12G.
11. PROVIDE INTERCOM SYSTEM SWITCHING MODULES WALL MOUNTED.
12. PROVIDE SPECIAL RECEPTACLE FOR IDF-UPS(NEMA L5-30P); BRANCH CIRCUIT: 3/4" – 2#10 & #10G.

ADD 13. CONNECT TELE-POWER POLE. TELE-POWER POLE SHALL BE HUBBELL DUAL COMPARTMENT MODEL #SP1108011CCXXXXBI. FURNISH WITH (2) IG DUPLEX RECEPTACLES AND (2) OUTLET SPACES FOR COMMUNICATIONS CONNECTORS – TYPICAL.

14. PENDANT MOUNTED SEE DETAIL, FIELD CONFIRM EXACT LOCATION WITH OWNER/IT SUBCONTRACTOR.

KEYPLAN

No.	REVISIONS	BY
ADD 1	JUNE 08, 2018	

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Date: May 10, 2018
Scale: As Noted
Project Architect: David Monreal, AIA
Drawn By: ETHOS
Job No. IDEA South McAllen Phase I
Sheet: E4.04

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MSB

ROOM — VOLTS 480Y/277V 3P 4W — AIC 100,000
MOUNTING FLOOR — BUS AMPS 2500 — MAIN BKR MLO
FED FROM UTILITY — NEUTRAL 100% — LUGS STANDARD
NOTE PROVIDE A TYPE WRITTEN AS BUILT DIRECTORY THAT INCLUDES ROOM NUMBERS.

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	600/3	PANEL DPC	210			2	250/3	PANEL HA	21.8		
3	|	|		210		4	|	|		18.8	
5	|	|			209	6	|	|			16.7
7	250/3	PANEL HB	14.6			8	800/3	PANEL PDP	216		
9	|	|		14		10	|	|	216		
11	|	|			10.3	12	|	|			216
13	800/3	SPARE	0			14	400/3	SPARE	0		
15	|	|		0		16	|	|		0	
17	|	|			0	18	|	|			0
								TOTAL CONNECTED KVA BY PHASE	462	458	452

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	37.4	46.8	(125%)	CONTINUOUS	0	0	(125%)
LARGEST MOTOR	37.7	9.42	(25%)	HEATING	969	969	(100%)
OTHER MOTORS	42.6	42.6	(100%)	COOLING	244	0	(0%)
RECEPTACLES	5.1	5.1	(50%>10)	NONCONTINUOUS	78	78	(100%)
KITCHEN EQUIP	210	137	(65%)	DIVERSE	0	0	(N/A)
				METERED DEMAND	0	0	(125%)
				TOTAL KVA	1,370	1,290	
				BALANCED 3-PHASE AMPS		1,550	

1. PROVIDE NEMA 3R (304 STAINLESS STEEL) ENCLOSURE.
2. PROVIDE MULTI-METERING PACKAGE.
3. PROVIDE SERVICE ENTRANCE RATED.
4. PROVIDE ALL BREAKERS 100% RATED.

*PROVIDE MULTI-METERING PACKAGE FOR TEMPORARY POWER.

FEEDER SCHEDULE:

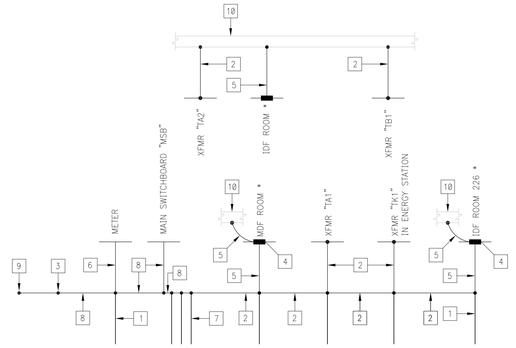
FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
60	1" – 4#6, #10G & #10IG	CL1, HBL1, HBL2
80	1.25" – 4#4 & #8G	LA3
80	1.25" – 4#4, #8G & #8IG	CA1
100	1.25" – 4#3 & #8G	LA2, LB1, LB2
100	1.25" – 4#3, #8G & #8IG	CA2
150	2" – 4#1/0, #6G & #6IG	CB2
175	2" – 4#2/0 & #6G	LA1
200	2" – 4#3/0 & #6G	HA2, AC2, AC4
250	3" – 4#250KCMIL & #4G	HA, HB, AC3, AC4
300	3" – 4#350KCMIL & #4G	MK, AC1
600	(2-RUNS) 3" – 4#350KCMIL & #1G	DPC
800	(2-RUNS) 4" – 4#600KCMIL & #1/0G	PDP
2500	(6-RUNS) 4" – 4#600KCMIL	MSB

SIZING METHOD: COPPER 75°C

TRANSFORMER SCHEDULE:

DESIGN	KVA	PV	SV	DEGREE RISE	CONNECTION	FREQ HZ	SERVES PANELS	CAT. NO.	PRIMARY FEEDER (75°C COPPER)
TA1	75	480	120/208	115	DELTA Y	60	LA1, LA3, CA1	POWER SMITHS: Esaver2016-75-480-208-HD-T115-F60	2" – 3#1/0 & #6G
TA2	75	480	120/208	115	DELTA Y	60	LA2, CA2, CL1	POWER SMITHS: Esaver2016-75-480-208-HD-T115-F60	2" – 3#1/0 & #6G
TB1	112.5	480	120/208	115	DELTA Y	60	LB1, LB2, CB2	POWER SMITHS: Esaver2016-112.5-480-208-HD-T115-F60	2" – 3#3/0 & #6G
TK1	75	480	120/208	115	DELTA Y	60	K1	POWER SMITHS: ES-IPF466-75-E20M-480-208-BCMB	2" – 3#1/0 & #6G

* IN ENERGY STATION



02 GROUNDING RISER DIAGRAM
SCALE : NONE

GROUNDING RISER KEYED NOTES:

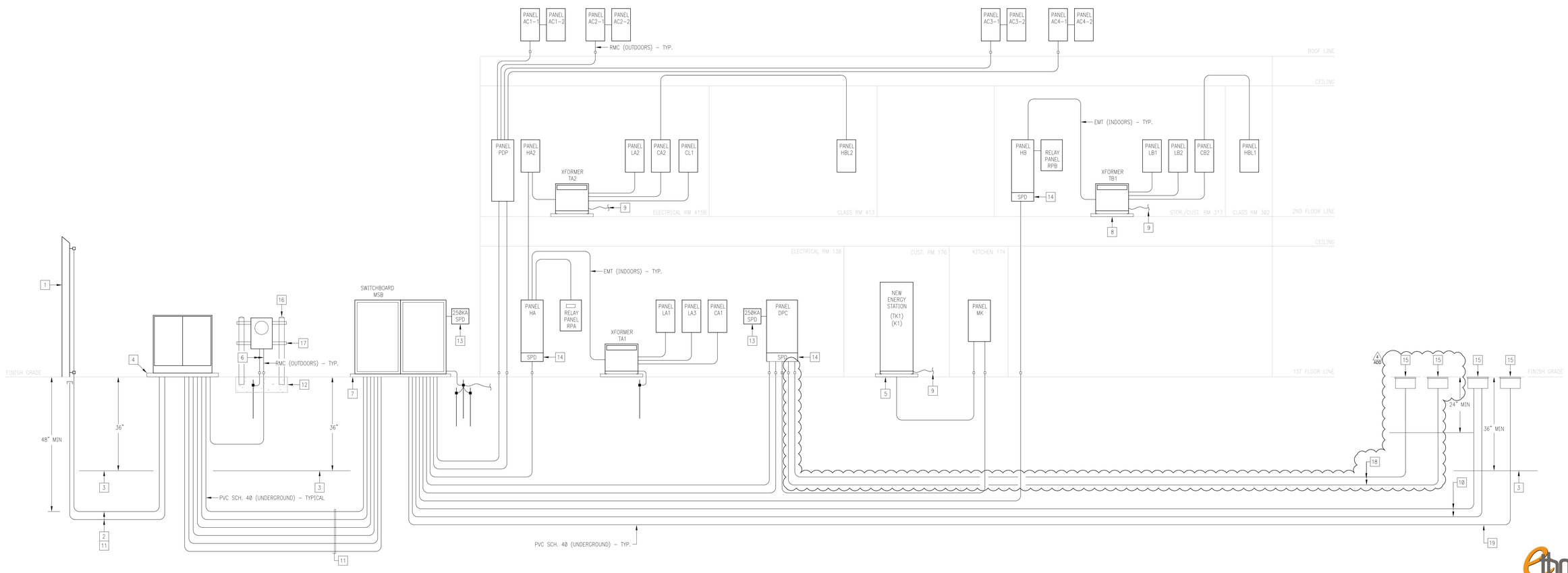
1. 3/4"X 10' COPPER CLAD GROUND RODS – TYPICAL.
2. #1/0 BARE COPPER GROUND ELECTRODE CONDUCTOR.
3. CADWELD CONNECT TO BUILDING REBAR STRUCTURE STEEL AND COPPER WATER LINE.
4. GROUNDING BUS BAR – TYPICAL.
5. #4 BARE COPPER GROUND CONDUCTOR.
6. #6 BARE COPPER GROUND CONDUCTOR.
7. INSTALL IN A TRIANGULAR PATTERN, MIN. 6' SPACING.
8. #500KCMIL BARE COPPER GROUND ELECTRODE CONDUCTOR.
9. CADWELD CONNECT TO REBAR AND STRUCTURE STEEL.
10. CADWELD TO BUILDING STRUCTURE STEEL.

RACEWAYS EMBEDDED IN FOUNDATION GENERAL NOTES:

RACEWAYS EMBEDED WITHIN THE SLAB SHALL COMPLY WITH THE FOLLOWING:
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. ELECTRIC UTILITY DIP POLE.
2. PROVIDE (2)4" PVC CONDUITS. PROVIDE LONG SWEEP RADIUS ELBOWS.
3. PROVIDE CONTINUOUS DETECTABLE UNDERGROUND WARNING TAPE.
4. PROVIDE UTILITY TRANSFORMER CONCRETE PAD – SEE DETAIL.
5. PROVIDE STEP-DOWN TRANSFORMER AND 4" CONCRETE HOUSEKEEPING PAD.
6. PROVIDE 1-1/4" – #6.
7. PROVIDE SWITCHBOARD HOUSEKEEPING PAD – SEE STRUCTURAL DRAWINGS.
8. PROVIDE 4" HOUSEKEEPING CONCRETE PAD – TYPICAL.
9. SEE GROUNDING RISER DIAGRAM – TYPICAL.
10. PROVIDE (2)4" RACEWAYS WITH PULLWIRE FOR SPARES AND FUTURE BUILDING. STUB-OUT FROM MAIN SWITCHBOARD "MSB" AND TERMINATE AT PULLBOX. SEE SITE PLAN FOR TERMINATION POINTS.
11. PROVIDE 2" RED CONCRETE TOPPING.
12. 24" WIDE X 24" LONG X 24" DEEP (4" ABOVE GRADE) CONCRETE FOOTING. WITH #4 REBAR WELDED ON TO 4" DIA. STEEL PIPE.
13. PROVIDE 250KA EXTERNALLY MOUNTED SPD CURRENT TECHNOLOGY MODEL #SLJ-250-480-3Y-MD-B-MZ-F-HP1.
14. PROVIDE 200KA PANEL EXTENSION SPD CURRENT TECHNOLOGY MODEL #PX3-200-480-3Y-X-M2-F-HP1.
15. PROVIDE POLYMER CONCRETE PULLBOX – SEE SITE PLAN.
16. 4" DIA. X 6' (ABOVE GROUND) HOT DIP GALVD. STEEL PIPE WITH CAP.
17. 3-1/4" X 1-5/8", 12 GAUGE UNISTRUT, HOT DIP GALV. AFTER FABRICATION.
18. PROVIDE 1-4" RACEWAY WITH PULLWIRE FOR SPARES AND FUTURE BUILDING. STUB-OUT FROM DISTRIBUTION PANEL "DPC" AND TERMINATE AT PULLBOX. SEE SITE PLAN FOR TERMINATION POINTS.
19. PROVIDE 1-4" RACEWAY WITH PULLWIRE FOR SPARES AND FUTURE BUILDING. STUB-OUT FROM MAIN SWITCHBOARD "MSB" AND TERMINATE AT PULLBOX. SEE SITE PLAN FOR TERMINATION POINTS.



01 ELECTRICAL RISER DIAGRAM
SCALE : NONE

No.	REVISIONS	BY
1 ADD	JUNE 08, 2018	

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IDEA Public Schools

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RAY PEYNADO
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LICENSED PROFESSIONAL ENGINEER
5.10.2018

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Gomez Mendez Saenz Inc.
Architects-Planners
Interior Designers

Date: May 10, 2018
Scale: As Noted
Project Architect: David Monreal, AIA
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HB

ROOM CUSTODIAN RM. 332 | VOLTS 480Y/277V 3P 4W | AIC 14,000
MOUNTING SURFACE | BUS AMPS 400 | MAIN BKR 250
FED FROM MSB | NEUTRAL 100% | LUGS STANDARD
NOTE PROVIDE A TYPE WRITTEN AS BUILT DIRECTORY THAT INCLUDES ROOM NUMBERS.

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	20/1	LIGHTING	2.29			2	20/1	LIGHTING	2.27		
3	20/1	LIGHTING		1.94		4	20/1	LIGHTING		1.89	
5	20/1				0	6	20/1	LIGHTING			0.37
7	20/1	LIGHTING	0.34			8	20/1	LIGHTING	0.34		
9	20/1	LIGHTING		0.431		10	20/1	LIGHTING		0.446	
11	20/1	LIGHTING			0.561	12	20/3	BP-1			1.33
13	20/1	SPARE	0			14	|		1.33		
15	20/1	SPARE		0		16	|			1.33	
17	20/1	SPACE			0	18	30/3	EWH-1			8
19	20/1	SPARE	0			20	|		8		
21	20/1	SPARE		0		22	|			8	
23	20/1	SPARE			0	24	20/1	SPACE			0
25	20/1	SPARE	0			26	20/1	SPACE	0		
27	20/1	SPARE		0		28	20/1	SPACE		0	
29	20/1	SPARE			0	30	20/1	SPACE			0
								TOTAL CONNECTED KVA BY PHASE	14.6	14	10.3

	CONN KVA	CALC KVA	
LIGHTING	10.9	13.6	(125%)
LARGEST MOTOR	3.99	4.99	(125%)
OTHER MOTORS	0	0	(100%)
RECEPTACLES	0	0	(50%>10)
KITCHEN EQUIP	0	0	(N/A)

	CONN KVA	CALC KVA	
CONTINUOUS	0	0	(125%)
HEATING	0	0	(N/A)
COOLING	0	0	(N/A)
NONCONTINUOUS	24	24	(100%)
DIVERSE	0	0	(N/A)
METERED DEMAND	0	0	(125%)
TOTAL KVA	38.9	42.6	
BALANCED 3-PHASE AMPS		51.2	

CB2

ROOM CUSTODIAN RM. 332 | VOLTS 208Y/120V 3P 4W | AIC 10,000
MOUNTING SURFACE | BUS AMPS 225 | MAIN BKR 150
FED FROM TB1 | NEUTRAL 200% | LUGS STANDARD
NOTE PROVIDE A TYPE WRITTEN AS BUILT DIRECTORY THAT INCLUDES ROOM NUMBERS.

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	20/1	RECEPT., WHITE BOARD	0.595			2	20/1	RECEPT., WHITE BOARD	0.595		
3	20/1	RECEPT., WHITE BOARD		0.595		4	20/1	RECEPT., WHITE BOARD		0.595	
5	20/1	RECEPT., WHITE BOARD			0.595	6	20/1	RECEPT., WHITE BOARD			0.595
7	20/1	RECEPT., WHITE BOARD	0.595			8	20/1	RECEPT., WHITE BOARD	0.595		
9	20/1	RECEPT., WHITE BOARD		0.595		10	20/1	RECEPT., WHITE BOARD		0.595	
11	20/1	RECEPT., WHITE BOARD			0.595	12	20/1	RECEPT., WHITE BOARD			0.595
13	20/1	RECEPT., WHITE BOARD	0.595			14	20/1	RECEPT., WHITE BOARD	0.595		
15	30/1	IDF - UPS		2.88		16	20/1	RECEPT., WHITE BOARD		0.595	
17	20/1	SPACE			0	18	20/1	RECEPT., WHITE BOARD			0.595
19	20/1	RECEPT., WHITE BOARD	0.595			20	20/1	RECEPT., WHITE BOARD	0.595		
21	20/1	RECEPT., WHITE BOARD		0.595		22	20/1	RECEPT., WHITE BOARD		0.595	
23	20/1	RECEPT., WHITE BOARD			0.595	24	20/1	RECEPT., WHITE BOARD			0.595
25	20/1	RECEPT., WHITE BOARD	0.595			26	20/1	RECEPT., WHITE BOARD	0.595		
27	20/1	RECEPT., WHITE BOARD		0.595		28	20/1	SPARE		0	
29	20/1	RECEPT., WHITE BOARD			0.595	30	20/1	SPARE			0
31	60/3	PANEL HBL1	8.22			32	20/1	SPARE	0		
33	|			9.41		34	20/1	SPARE		0	
35	|				6.78	36	20/1	SPARE			0
37	20/1	SPACE	0			38	20/1	SPARE	0		
39	20/1	SPACE		0		40	20/1	SPARE		0	
41	20/1	SPACE			0	42	20/1	SPARE			0
								TOTAL CONNECTED KVA BY PHASE	14.2	17.1	11.5

	CONN KVA	CALC KVA	
LIGHTING	0	0	(125%)
LARGEST MOTOR	0	0	(N/A)
OTHER MOTORS	0	0	(100%)
RECEPTACLES	33.9	21.9	(50%>10)
KITCHEN EQUIP	0	0	(N/A)

	CONN KVA	CALC KVA	
CONTINUOUS	8.88	11.1	(125%)
HEATING	0	0	(N/A)
COOLING	0	0	(N/A)
NONCONTINUOUS	0	0	(100%)
DIVERSE	0	0	(N/A)
METERED DEMAND	0	0	(125%)
TOTAL KVA	42.8	33	
BALANCED 3-PHASE AMPS		91.7	

LB1

ROOM CUSTODIAN RM. 332 | VOLTS 208Y/120V 3P 4W | AIC 10,000
MOUNTING SURFACE | BUS AMPS 100 | MAIN BKR 100
FED FROM TB1 | NEUTRAL 100% | LUGS STANDARD
NOTE PROVIDE A TYPE WRITTEN AS BUILT DIRECTORY THAT INCLUDES ROOM NUMBERS.

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	20/1	RECEPT.	0.9			2	20/1	RECEPT.	0.72		
3	20/1	RECEPT.		0.72		4	20/1	RECEPT.		0.72	
5	20/1	RECEPT.			0.9	6	20/1	RECEPT.			0.72
7	20/1	RECEPT.	0.9			8	20/1	RECEPT.	0.72		
9	20/1	RECEPT.		0.54		10	20/1	RECEPT.		0.54	
11	20/1	RECEPT.			0.54	12	20/1	RECEPT.			0.72
13	20/1	RECEPT.	0.72			14	20/1	RECEPT.	0.72		
15	20/1	HAND DRYER		1.5		16	20/1	RECEPT.		0.9	
17	20/1	HAND DRYER			1.5	18	20/1	RECEPT.			0.9
19	20/1	HAND DRYER	1.5			20	20/1	EF1-1	0.188		
21	20/1	HAND DRYER		1.5		22	20/1	EF1-2		0.188	
23	20/1	HAND DRYER			1.5	24	20/2	FCU-2			0.9
25	20/1	RECEPT.	0.54			26	|		0.9		
27	20/1	EF1-3, LIGHTING		0.078		28	30/1	IG DUPLEX, USB RECEPT.		2.43	
29	20/1	DRINKING FOUNTAIN			0.8	30	20/1	RECEPT.			0.18
31	20/1	DRINKING FOUNTAIN	0.8			32	20/1	RECEPT.	0.18		
33	20/1	EF1-4		0.038		34	20/1	HAND DRYER		1.5	
35	20/1	CP-1			0.1	36	20/1	HAND DRYER			1.5
37	20/1	SPARE	0			38	20/1	SPARE	0		
39	20/1	SPARE		0		40	20/1	SPARE		0	
41	20/1	SPARE			0	42	20/1	SPARE			0
								TOTAL CONNECTED KVA BY PHASE	8.79	10.7	10.3

	CONN KVA	CALC KVA	
LIGHTING	0.04	0.05	(125%)
LARGEST MOTOR	1.8	2.25	(125%)
OTHER MOTORS	0.552	0.552	(100%)
RECEPTACLES	25.1	17.5	(50%>10)
KITCHEN EQUIP	0	0	(N/A)

	CONN KVA	CALC KVA	
CONTINUOUS	2.25	2.81	(125%)
HEATING	0	0	(N/A)
COOLING	0	0	(N/A)
NONCONTINUOUS	0	0	(100%)
DIVERSE	0	0	(N/A)
METERED DEMAND	0	0	(125%)
TOTAL KVA	29.7	23.2	
BALANCED 3-PHASE AMPS		64.4	

LB2

ROOM CUSTODIAN RM. 332 | VOLTS 208Y/120V 3P 4W | AIC 10,000
MOUNTING SURFACE | BUS AMPS 100 | MAIN BKR 100
FED FROM TB1 | NEUTRAL 100% | LUGS STANDARD
NOTE PROVIDE A TYPE WRITTEN AS BUILT DIRECTORY THAT INCLUDES ROOM NUMBERS.

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	20/1	RECEPT.	0.9			2	20/1	RECEPT.	0.72		
3	20/1	RECEPT.		0.9		4	20/1	RECEPT.		0.72	
5	20/1	RECEPT.			0.9	6	20/1	RECEPT.			0.72
7	20/1	RECEPT.	0.72			8	20/1	RECEPT.	0.72		
9	20/1	RECEPT.		0.9		10	20/1	RECEPT.		0.72	
11	20/1	RECEPT.			0.72	12	40/1	EF2-1, EF2-2			3.76
13	20/1	HAND DRYER	1.5			14	20/1	EF2-3, EF2-4, LIGHTING	0.116		
15	20/1	HAND DRYER		1.5		16	20/1	SPACE		0	
17	20/1	HAND DRYER			1.5	18	20/1	SPACE			0
19	20/1	HAND DRYER	1.5			20	20/2	* ACCU-2	2.23		
21	20/1	DRINKING FOUNTAIN		0.8		22	|			2.23	
23	20/1	DRINKING FOUNTAIN			0.8	24	20/1	HAND DRYER			1.5
25	20/1	HAND DRYER	1.5			26	20/1	HAND DRYER	1.5		
27	20/1	RECEPT., USB RECEPT.		0.72		28	20/1	SPACE		0	
29	20/1	SPARE			0	30	20/1	SPACE			0
31	20/1	SPARE	0			32	20/1	SPACE	0		
33	20/1	SPARE		0		34	20/1	SPACE		0	
35	20/1	SPARE			0	36	20/1	SPACE			0
37	20/1	SPARE	0			38	20/1	SPACE	0		
39	20/1	SPARE		0		40	20/1	SPACE		0	
41	20/1	SPARE			0	42	20/1	SPACE			0
								TOTAL CONNECTED KVA BY PHASE	11.4	8.49	9.9

	CONN KVA	CALC KVA	
LIGHTING	0.04	0.05	(125%)
LARGEST MOTOR	4.47	5.58	(125%)
OTHER MOTORS	3.84	3.84	(100%)
RECEPTACLES	21.5	15.7	(50%>10)
KITCHEN EQUIP	0	0	(N/A)

	CONN KVA	CALC KVA	
CONTINUOUS	0	0	(125%)
HEATING	0	0	(N/A)
COOLING	0	0	(N/A)
NONCONTINUOUS	0	0	(100%)
DIVERSE	0	0	(N/A)
METERED DEMAND	0	0	(125%)
TOTAL KVA	29.8	25.2	
BALANCED 3-PHASE AMPS		69.9	

* PROVIDE HACR TYPE.

HBL1

ROOM CLASSROOM 327 | VOLTS 208Y/120V 3P 4W | AIC 10,000
MOUNTING FLUSH | BUS AMPS 100 | MAIN BKR 60
FED FROM CB2 | NEUTRAL 200% | LUGS STANDARD
NOTE PROVIDE A TYPE WRITTEN AS BUILT DIRECTORY THAT INCLUDES ROOM NUMBERS.

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	20/1	RECEPT.	0.36			2	20/1	COMP. RECEPT.	1.5		
3	20/1	COMP. RECEPT.		1.5		4	20/1	COMP. RECEPT.		1.5	
5	20/1	COMP. RECEPT.			1.5	6	20/1	COMP. RECEPT.			1.5
7	20/1	COMP. RECEPT.	1.5			8	20/1	COMP. RECEPT.	1.5		
9	20/1	COMP. RECEPT.		1.5		10	20/1	COMP. RECEPT.		1.5	
11	20/1	USB RECEPT.			0.36	12	20/1	COMP. RECEPT.			1.5
13	20/1	RECEPT.	0.36			14	20/1	COMP. RECEPT.	1.5		
15	20/1	RECEPT., WHITE BOARD		0.415		16	20/1	IG DUPLEX		1.5	
17	20/1	RECEPT., WHITE BOARD			0.415	18	20/1	IG DUPLEX			1.5
19	20/1	IG DUPLEX	1.5			20	20/1	SPARE	0		
21	20/1	IG DUPLEX		1.5		22	20/1	SPARE		0	
23	20/1	SPARE			0	24	20/1	SPARE			0
25	20/1	SPARE	0			26	20/1	SPARE	0		
27	20/1	SPARE		0		28	20/1	SPARE		0	
29	20/1	SPARE			0	30	20/1	SPARE			0
								TOTAL CONNECTED KVA BY PHASE	8.22	9.41	6.78

	CONN KVA	CALC KVA	
LIGHTING	0	0	(125%)
LARGEST MOTOR	0	0	(N/A)
OTHER MOTORS	0	0	(100%)
RECEPTACLES	18.4	14.2	(50%>10)
KITCHEN EQUIP	0	0	(N/A)

	CONN KVA	CALC KVA	
CONTINUOUS	6	7.5	(125%)
HEATING	0	0	(N/A)
COOLING	0	0	(N/A)
NONCONTINUOUS	0	0	(100%)
DIVERSE	0	0	(N/A)
METERED DEMAND	0	0	(125%)
TOTAL KVA	24.4	21.7	
BALANCED 3-PHASE AMPS		60.2	

HBL2

ROOM CLASSROOM 302 | VOLTS 208Y/120V 3P 4W | AIC 10,000
MOUNTING FLUSH | BUS AMPS 100 | MAIN BKR 60
FED FROM CA2 | NEUTRAL 200% | LUGS STANDARD
NOTE PROVIDE A TYPE WRITTEN AS BUILT DIRECTORY THAT INCLUDES ROOM NUMBERS.

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	20/1	COMP. RECEPT.	1.5			2	20/1	COMP. RECEPT.	1.5		
3	20/1	COMP. RECEPT.		1.5		4	20/1	COMP. RECEPT.		1.5	
5	20/1	COMP. RECEPT.			1.5	6	20/1	COMP. RECEPT.			1.5
7	20/1	COMP. RECEPT.	1.5			8	20/1	COMP. RECEPT.	1.5		
9	20/1	USB RECEPT.		0.36		10	20/1	COMP. RECEPT.		1.5	
11	20/1	RECEPT.			0.36	12	20/1	COMP. RECEPT.			1.5
13	20/1	RECEPT., WHITE BOARD	0.415			14	20/1	COMP. RECEPT.	1.5		
15	20/1	IG DUPLEX		0.75		16	20/1	IG DUPLEX		0.75	
17	20/1	IG DUPLEX			0.75	18	20/1	IG DUPLEX			0.75
19	20/1	RECEPT., WHITE BOARD	0.415			20	20/1	IG DUPLEX	0.75		
21	20/1	IG DUPLEX		0.75		22	20/1	IG DUPLEX		0.75	
23	20/1	IG DUPLEX			0.75	24	20/1	SPARE			0
25	20/1	SPARE	0			26	20/1	SPARE	0		
27	20/1	SPARE		0		28	20/1	SPARE		0	
29	20/1	SPARE			0	30	20/1	SPARE			0
								TOTAL CONNECTED KVA BY PHASE	9.08	7.86	7.11

	CONN KVA	CALC KVA	
LIGHTING	0	0	(125%)
LARGEST MOTOR	0	0	(N/A)
OTHER MOTORS	0	0	(100%)
RECEPTACLES	18.1	14	(50%>10)
KITCHEN EQUIP	0	0	(N/A)

	CONN KVA	CALC KVA	
CONTINUOUS	6	7.5	(125%)
HEATING	0	0	(N/A)
COOLING	0	0	(N/A)
NONCONTINUOUS	0	0	(100%)
DIVERSE	0	0	(N/A)
METERED DEMAND	0	0	(125%)
TOTAL KVA	24.1	21.5	
BALANCED 3-PHASE AMPS		59.7	

No.	REVISIONS	BY
1	ADD	
	JUNE 08, 2018	

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PHASE I
MCALLEN, TEXAS

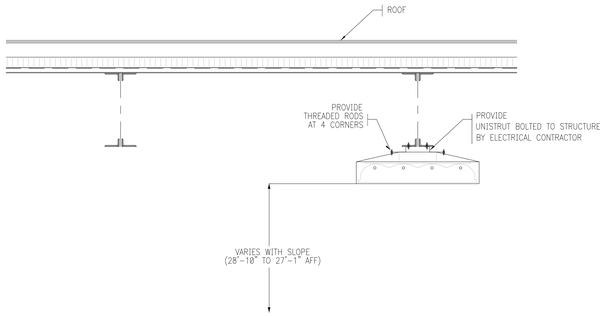
IDEA Public Schools

STATE OF TEXAS
RAY PEYNADO
125390
LICENSED PROFESSIONAL ENGINEER
5.10.2018

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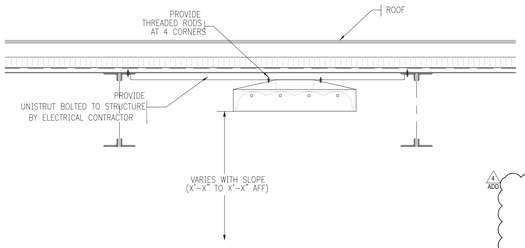
Date: May 10, 2018
Scale: As Noted
Project Architect: David Monreal, AIA
Drawn By: ETHOS
Job No.: IDEA South McAllen Phase I
Sheet: E8.03

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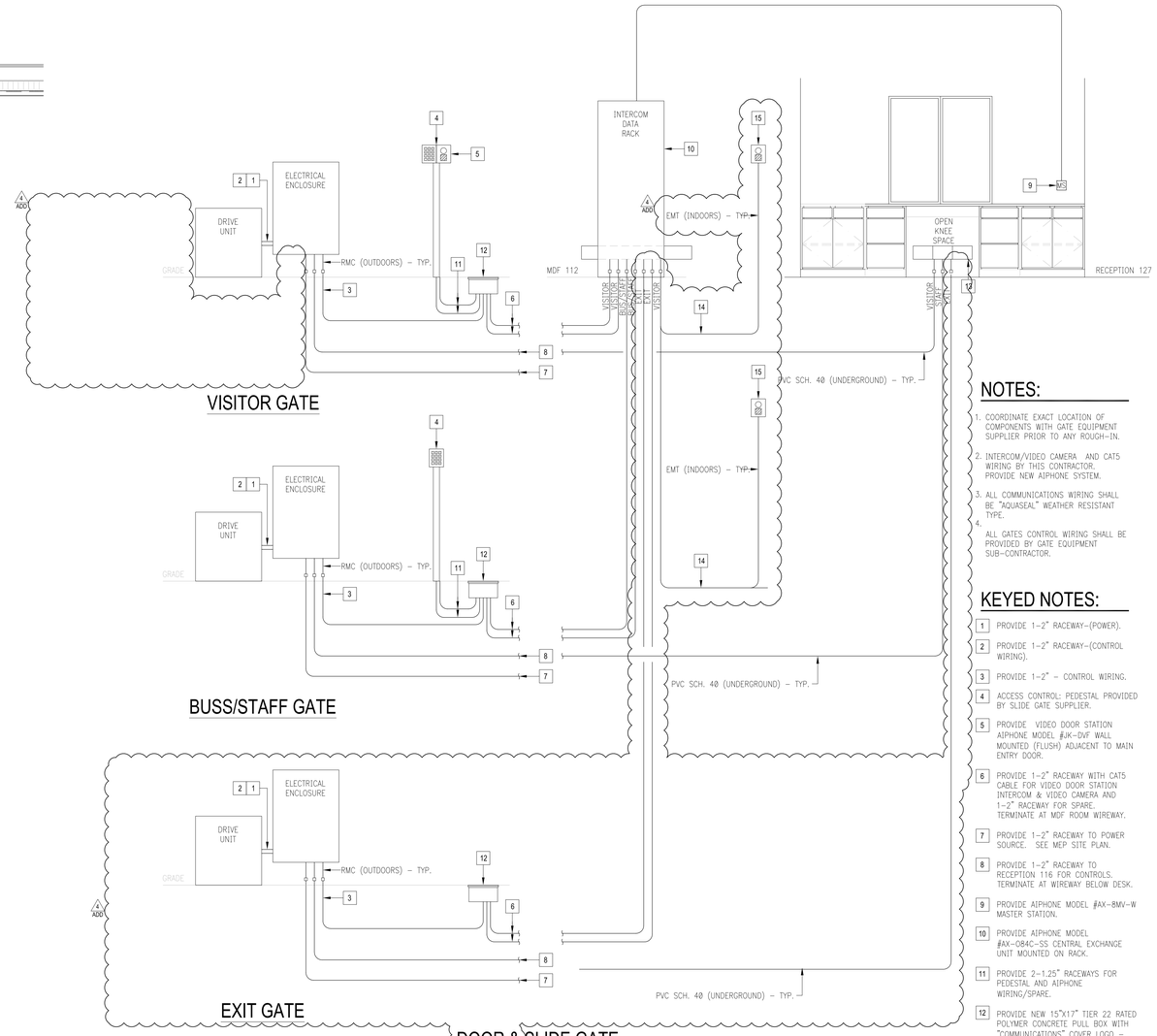
01 GYMNASIUM LIGHT FIXTURE MOUNTING DETAIL

SCALE : NOT TO SCALE



02 CAFETERIA LIGHT FIXTURE MOUNTING DETAIL

SCALE : NOT TO SCALE



03 DOOR & SLIDE GATE OPERATOR DETAIL

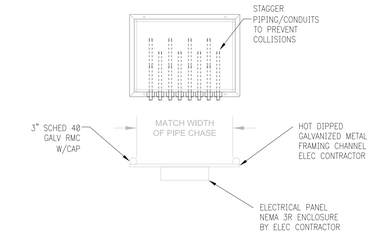
SCALE : NOT TO SCALE

NOTES:

1. COORDINATE EXACT LOCATION OF COMPONENTS WITH GATE EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH-IN.
2. INTERCOM/VIDEO CAMERA AND CAT5 WIRING BY THIS CONTRACTOR. PROVIDE NEW AIPHONE SYSTEM.
3. ALL COMMUNICATIONS WIRING SHALL BE "AQUASEAL" WEATHER RESISTANT TYPE.
4. ALL GATES CONTROL WIRING SHALL BE PROVIDED BY GATE EQUIPMENT SUB-CONTRACTOR.

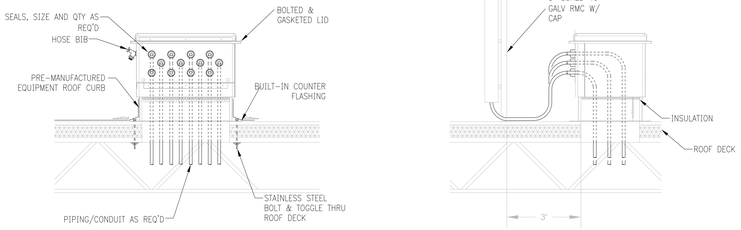
KEYED NOTES:

1. PROVIDE 1-2" RACEWAY-(POWER).
2. PROVIDE 1-2" RACEWAY-(CONTROL WIRING).
3. PROVIDE 1-2" - CONTROL WIRING.
4. ACCESS CONTROL: PEDESTAL PROVIDED BY SLIDE GATE SUPPLIER.
5. PROVIDE VIDEO DOOR STATION AIPHONE MODEL #JK-DVF WALL MOUNTED (FLUSH) ADJACENT TO MAIN ENTRY DOOR.
6. PROVIDE 1-2" RACEWAY WITH CAT5 CABLE FOR VIDEO DOOR STATION INTERCOM & VIDEO CAMERA AND 1-2" RACEWAY FOR SPARE. TERMINATE AT MDF ROOM WIREWAY.
7. PROVIDE 1-2" RACEWAY TO POWER SOURCE. SEE MEP SITE PLAN.
8. PROVIDE 1-2" RACEWAY TO RECEPTION 116 FOR CONTROLS. TERMINATE AT WIREWAY BELOW DESK.
9. PROVIDE AIPHONE MODEL #AX-8MV-W MASTER STATION.
10. PROVIDE AIPHONE MODEL #AX-064C-SS CENTRAL EXCHANGE UNIT MOUNTED ON RACK.
11. PROVIDE 2-1.25" RACEWAYS FOR PEDESTAL AND AIPHONE WIRING/SPARE.
12. PROVIDE NEW 15"X17" TIER 22 RATED POLYMER CONCRETE PULL BOX WITH "COMMUNICATIONS" COVER LOGO - SEE DETAIL.
13. PROVIDE 3 - 2-GANG GANGABLE LARGE CAPACITY WALL BOXES HUBBELL MODEL # HBL985 FLUSH MOUNTED IN WALL. PROVIDE A BLANK COVER PLATE.
14. PROVIDE 1-2" RACEWAY WITH CAT5 & 12/2 CABLE FOR VIDEO DOOR STATION & ELECTRIC STRIKE. TERMINATE AT MDF ROOM WIREWAY.
15. PROVIDE VIDEO DOOR STATION AIPHONE MODEL #JK-DVF SURFACE MOUNTED TO GATE ENTRY DOOR.



NOTES:

1. COORDINATE LOCATION OF EQUIPMENT WITH STRUCTURAL FRAMING PLAN.
2. PIPING CHASE CANNOT BE FIELD CUT - COORDINATE EXACT NUMBER AND SIZE OF PENETRATIONS REQUIRED WITH EQUIPMENT SUPPLIERS AND MANUFACTURERS.

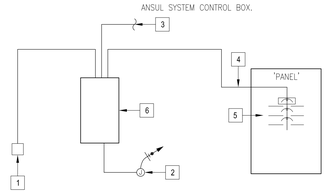


03 PIPE CHASE HOUSING MOUNTING DETAIL

SCALE : NOT TO SCALE

KEYED NOTES:

1. PROVIDE PULL STATION (FLUSH MOUNTED).
2. PROVIDE J-BOX FOR ANSUL SYSTEM POWER.
3. CONTRACTOR SHALL COORDINATE SIGNAL SYSTEM REQUIREMENTS WITH KITCHEN EQUIPMENT SUPPLIER.
4. PROVIDE CONTROL SIGNAL TO SHUNT-TRIP BREAKERS.
5. PROVIDE SHUNT-TRIP BREAKERS AS NOTED ON PANELBOARD SCHEDULES.
6. PROVIDE SHUNT-TRIP BREAKERS AS NOTED ON PANELBOARD SCHEDULES.

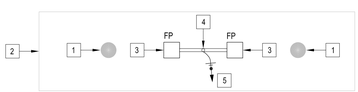


04 ANSUL SYSTEM DIAGRAM

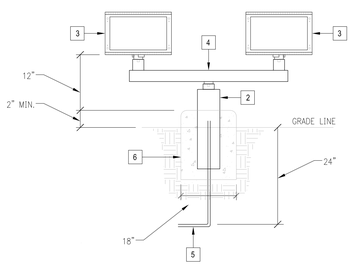
SCALE : NONE

KEYED NOTES:

1. FLAG POLE.
2. FLAG POLE CONCRETE PAD.
3. PROVIDE FLOOD LIGHT TYPE "FP" - SEE LIGHT FIXTURE SCHEDULE.
4. PROVIDE SQUARE BULL HORN FOR MOUNTING TWO LIGHT FIXTURES IN LINE.
5. PROVIDE HOMERUN TO POWER SOURCE.
6. PROVIDE CONCRETE FOOTING. COORDINATE WITH ARCHITECTURAL/STRUCTURAL. TOP OF FOOTING TO BE 2" MINIMUM ABOVE GRADE.
7. PROVIDE STANCHION.

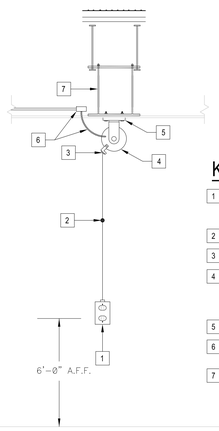


PLAN VIEW



06 FLAG POLE LIGHTING DETAIL

SCALE : NOT TO SCALE



KEYED NOTES:

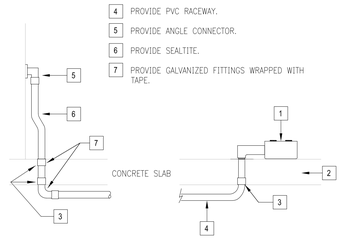
1. PROVIDE TWO DUPLEX RECEPTACLES SHALL BE HUBBELL MODEL NO. HBL45123R20W IN CAST "BELL BOX" & STAINLESS STEEL PLATE.
2. PROVIDE BALL STOP.
3. PROVIDE FOUR ROLLER OUTLET.
4. PROVIDE CORD REEL HUBBELL MODEL NO. HBL45123W WITH 340" CONTINUOUS SWIVEL BASE, BALL STOP, 45FT. OF NO. 12 CABLE, CABLE LOCKING RATCHET.
5. PROVIDE BOLT TO UNISTRUT - SPANNING JOIST.
6. PROVIDE JUNCTION BOX WITH FLEX CONNECTION TO REEL.
7. PROVIDE THREADED ROD AND UNISTRUT SUPPORT.

07 CORD REEL MOUNTING DETAIL

SCALE : NOT TO SCALE

KEYED NOTES:

1. PROVIDE CROUSE-HINDS SINGLE GANG CAST DEVICE BOX (FS). LAY FLAT ON FLOOR WITH WEATHERPROOF COVER.
2. PROVIDE RIGID GALVANIZED WRAPPED WITH TAPE.
3. PROVIDE COUPLING.
4. PROVIDE PVC RACEWAY.
5. PROVIDE ANGLE CONNECTOR.
6. PROVIDE SEALTITE.
7. PROVIDE GALVANIZED FITTINGS WRAPPED WITH TAPE.

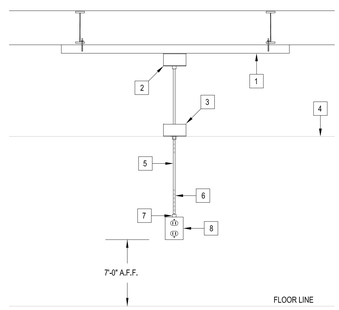


08 KITCHEN EQUIPMENT CONNECTION DETAIL

SCALE : NONE

KEYED NOTES:

1. PROVIDE UNISTRUT BOLTED TO BUILDING STRUCTURE STEEL.
2. PROVIDE J-BOX ATTACHED TO UNISTRUT.
3. PROVIDE J-BOX SECURE TO BUILDING STRUCTURE STEEL.
4. SUSPENDED CEILING LINE.
5. PROVIDE 3#12 "SO" CORD.
6. PROVIDE STAINLESS STEEL MESH BY KELLEMS AT BOTH ENDS.
7. PROVIDE ALUMINUM BODY STRAIGHT MALE THREADED CONNECTOR BY KELLEMS.
8. PROVIDE CAST ALUMINUM BOX WITH GFCI RECEPTACLE AS NOTED.



09 PENDANT MOUNTED RECEPTACLE DETAIL

SCALE : NONE

No.	REVISIONS	BY
1 ADD	JUNE 08, 2018	

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IDEA-SOUTH MCALLEN CAMPUS PHASE I

MCALLEN, TEXAS

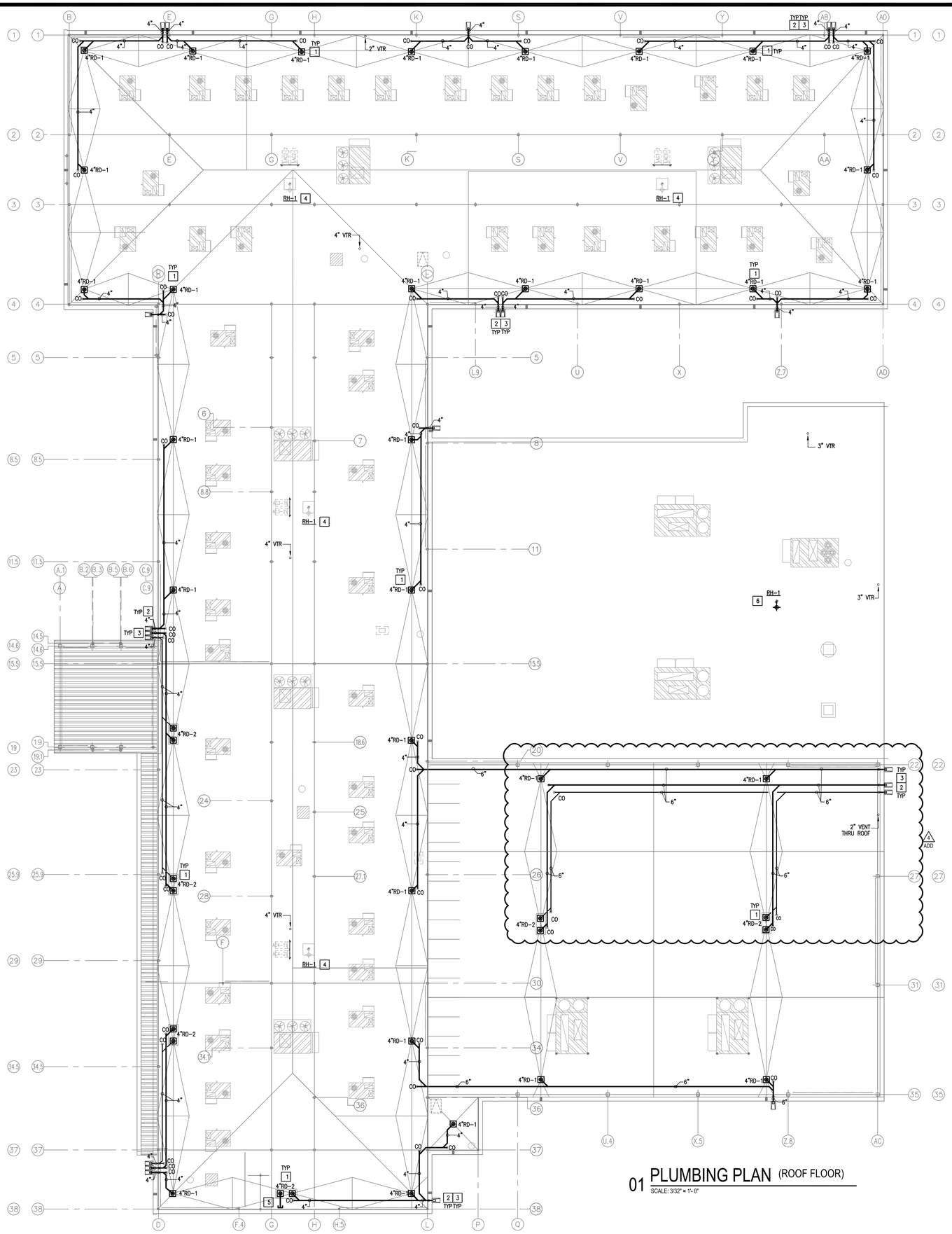
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Date:	May 10, 2018
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Drawn By:	ETHOS
Job No.	IDEA South McAllen Phase I
Sheet:	E9.03

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01 PLUMBING PLAN (ROOF FLOOR)
SCALE: 3/32" = 1'- 0"

GENERAL NOTES:

1. ALL HORIZONTAL LEADERS TO BE A MINIMUM OF 1/4" PER FOOT SLOPE. (1 ADD)
2. ALL VERTICAL LEADER LINES DOWN AND CONCEALED IN PLUMBING CHASE UNLESS OTHERWISE NOTED. REFER TO DRAWINGS.
3. COORDINATE ROOF DRAIN PIPING WITH GENERAL CONTRACTOR AND HVAC CONTRACTOR.
4. PROVIDE INSULATION ON ALL ABOVE GROUND STORM LINES. REFER TO SPECIFICATIONS FOR DETAILS.
5. STORM DRAIN PIPING AND SEWER PIPING SHOWN ON THIS PLAN TO BE INSTALLED UNDER THE ROOF AND ABOVE THE CEILING OF SECOND FLOOR.

KEYED NOTES:

1. PROVIDE ROOF DRAIN AS SCHEDULED. SEE ASSOCIATED DETAILS ON THIS SHEET. (TYPICAL)
2. DROP STORM PIPING IN PIPE CHASE. REFER TO ARCHITECTURAL SHEET AND COORDINATE INSTALLATION WITH GENERAL CONTRACTOR. SEE ASSOCIATED DETAILS ON THIS SHEET. (TYPICAL)
3. PROVIDE SPLASH BLOCK AS SHOWN.
4. PROVIDE DOMESTIC WATER PIPING TO CONNECT HOSE BIBB AT PIPE CHASE VAULT HOUSING PROVIDED BY DIVISION 26. PROVIDE HOSE BIBB AS SCHEDULED. SEE ASSOCIATED DETAIL ON DETAILS SHEET. (TYPICAL)
5. CAP SECONDARY ROOF DRAIN FOR FUTURE ADDITION OF BUILDING WHICH WILL ELIMINATE THE GUTTER OVERFLOW SYSTEM INSTALLED ON THIS PHASE. REFER TO ARCHITECTURAL ROOF PLAN.
6. PROVIDE ROOF HYDRANT AS SCHEDULED. SEE ASSOCIATED DETAILS ON DETAIL SHEET (TYPICAL).

No.	REVISIONS	BY
1 ADD	JUNE 08, 2018	

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IDEA-SOUTH MCALLEN CAMPUS
PHASE I
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FUTURE PHASE II
KEYPLAN

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5.10.2018

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Date: May 10, 2018
Scale: As Noted
Project Architect: David Monreal, AIA
Drawn By: ETHOS
Job No.: IDEA South McAllen Phase I
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