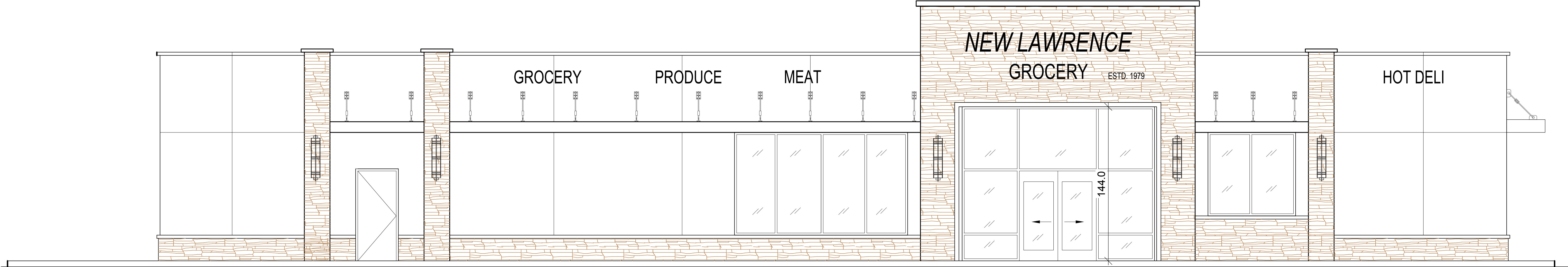


# NEW LAWRENCE GROCERY

SAN LEON, TX



OWNER'S INFORMATION:

Mr. Barket Ali  
Lawrence Grocery  
Lawrencegrocery@gmail.com

ALL DRAWINGS, SPECIFICATIONS, AND NOTES ARE THE PROPERTY OF WADHWA AND ASSOCIATES, INC. AND NO PART THEREOF SHALL BE REPRODUCED, COPIED, OR USED IN CONNECTION WITH ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF WADHWA AND ASSOCIATES, INC. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR THE ACCURACY OF ALL DIMENSIONS, CONDITIONS, AND CONDITIONS ON THE JOB AND IMMEDIATELY REPORT ANY VIOLATIONS FROM THE DRAWINGS TO THE ARCHITECT. SHOWING OF THESE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

DRAWN:

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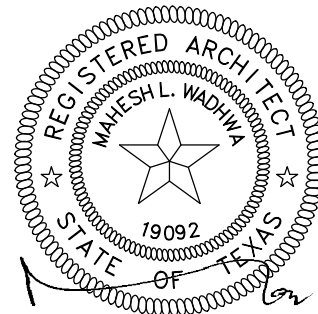
DATE : JAN 2018

## NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

ISSUE

06-12-18 I.F.P.



DATE: 06/12/2018

### COVER SHEET



WADHWA AND ASSOCIATES, INC.  
architects, planners  
and construction administration

1220 Biolock #230 Ph: (713) 465-0009  
Houston, Texas 77055 Fax: (713) 465-2391

REVISIONS

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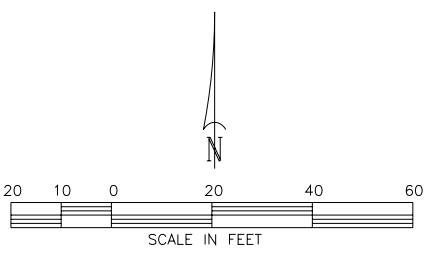
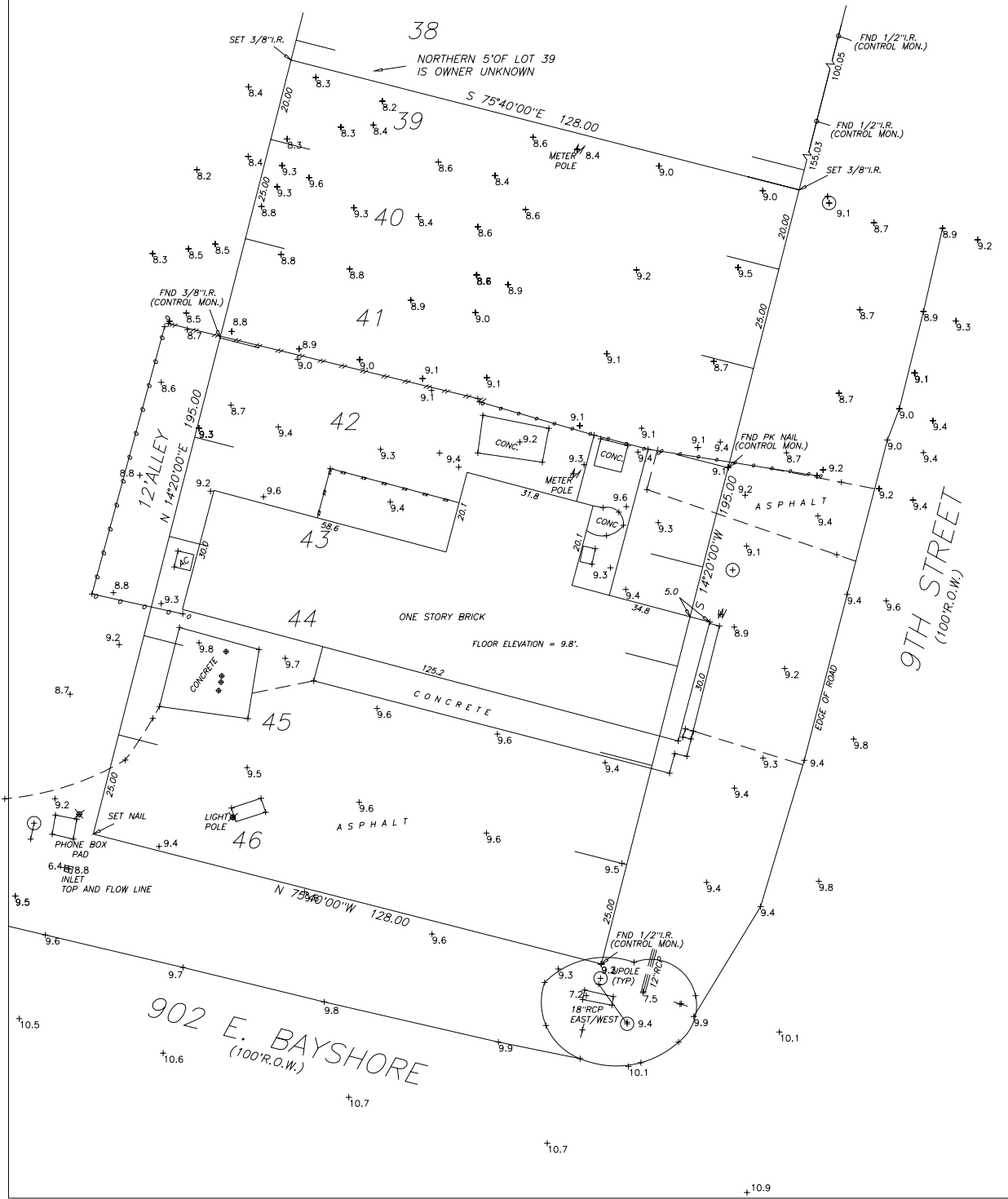
JOB NO.

18-02-003

SHEET NO.

A

FOOD MART - BAYSHORE



BOUNDARY AND TOPOGRAPHIC SURVEY  
LOTS 40 THROUGH 46, AND THE SOUTH 20 FEET OF LOT  
39 IN BLOCK 13, SAN LEON TOWNSITE, GALVESTON COUNTY, TEXAS

According to the map or plat thereof recorded in Vol.  
238, Page 27 in the Office of the County Clerk of  
Galveston County, Texas.

I, Christopher Trusky, Registered Professional Land Surveyor  
in the State of Texas, hereby certify that this plat represents  
a survey made on the ground under my direction and super-  
vision on November 17, 2017. At the time of this survey there  
were no encroachments, conflicts or protrusions apparent on  
the ground, EXCEPT AS SHOWN.  
THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

*Christopher Trusky*

Christopher Trusky  
RPLS No. 5247  
The Land Survey Co. LLC  
Firm Reg. No. 10045700  
281-338-4008



Note:  
According to FIRM Community Panel No. 4854700105C, dated  
05/02/1983, this property lies in Flood Zone "A12", which is  
considered to be WITHIN the Special Flood Hazard Area. Surveyor  
makes no representation as to whether or not this property may flood.

Basis of bearings is the right of way of 9th Street, as platted and  
monumented.

Other matters or encumbrances affecting the subject property, if any,  
are not shown.

Elevations shown hereon are referenced to the published elevation  
of USCGS Benchmark Z-1186. (NGVD 29 DATUM)

Base Flood Elevation is 11'.



# NEW LAWRENCE GROCERY

SAN LEON, TX

## GENERAL NOTES

1. ALL WORK SHOULD BE DONE AS PER I.B.C., REQUIREMENTS AND ANY OTHER APPLICABLE REGULATIONS AND ORDINANCES.
2. GENERAL CONTRACTOR TO PROVIDE APPROVED FIRE EXTINGUISHER AS REQUIRED BY FIRE MARSHALL. LOCATION SHALL BE AS DETERMINED IN FIELD BY FIRE MARSHALL. FIRE EXTINGUISHER TO BE RECESSED.
3. REFER TO STRUCTURAL DRAWINGS FOR ROOF ELEVATIONS.
4. ALL INTERIOR WALL DIMENSIONS ARE TO EDGE OF STUD, UNLESS OTHERWISE NOTED.
5. ALL EXTERIOR WALL DIMENSIONS ARE TO END OF STEEL MEMBERS OR STUDS UNLESS OTHERWISE NOTED.
6. INTERIOR PARTITIONS ARE METAL STUDS AT 16" O.C. UNLESS OTHERWISE NOTED.
7. UNLESS SPECIFICALLY LOCATED, DOORS SHALL BE CENTERED IN WALL OR LOCATE DOOR JAMB 8" FROM NEAREST WALL CENTERLINE OR 4" FROM NEAREST OBSTRUCTION.
8. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXIST. CONDITIONS AND DIMENSIONS ON THE JOB SITE AND REPORT ANY AND ALL DISCREPANCIES AND/OR UNUSUAL CONDITIONS TO WADHWA & ASSOCIATES, INC. PRIOR TO FINALIZING BIDS AND COMMENCEMENT OF ANY CONSTRUCTION.
9. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES FOR PERMITS, AND CHECK ALL GOVERNING AUTHORITIES SPECIFICATIONS FOR CONSTRUCTION INCLUDING REMOVAL OR RELOCATION OF EXISTING UTILITIES OR OTHER PHYSICAL OBJECTS SHOWN ON PLANS OR OTHERWISE NOTED.
10. CONTRACTOR SHALL PROVIDE PUBLIC PROTECTION AS NECESSARY AND REQUIRED BY THE GOVERNING AUTHORITIES.
11. UNLESS OTHERWISE INDICATED ON THESE DRAWINGS OR IN THE SPECIFICATIONS AS BEING N.I.C. OR EXISTING, ALL ITEMS, MATERIALS, ETC. AND INSTALLATION OF SAME ARE A PART OF THE CONTRACT DEFINED BY THESE DRAWINGS AND SPECIFICATIONS.
12. THE BUILDING AND FACILITIES MUST BE ACCESSIBLE TO AND FUNCTIONAL FOR THE PHYSICALLY HANDICAPPED.
13. GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WORK OF ALL OWNERS SUBCONTRACTORS AND FIXTURE CONTRACTORS INCLUDING THE PERFORMANCE OF SUCH MISCELLANEOUS WORK AS MAY BE NECESSARY FOR THEM TO COMPLETE THEIR WORK.
14. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL PROVIDE SOLID BLOCKING AS REQUIRED FOR NAILING OF ALL INTERIOR AND EXTERIOR TRIM, FINISHES, AND SHALL COORDINATE AND PROVIDE ALL FRAMING AND BRACING AS NECESSARY FOR INSTALLATION OF N.I.C. EQUIPMENT INDICATED.
15. PROVIDE EXIT SIGN ON ALL EXITS AS REQUIRED BY CODE.
16. ALL REQUIRED EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT EXCEPT EXTERIOR DOORS WHICH ARE IDENTIFIED WITH A VISIBLE SIGN HAVING NOT LESS THAN 1" HIGH LETTERS STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS."
17. WHERE EXIT DOORS SWING OUT OVER A LANDING, THE LANDING SHALL BE NOT MORE THAN 1/2" BELOW THE THRESHOLD.
18. SIZES OF MECHANICAL EQUIPMENT PADS, BASES, ROOF EQUIPMENT PADS, AND OPENINGS ARE A BASIS FOR DESIGN ONLY. CONTRACTOR SHALL VERIFY DIMENSIONS OF ALL EQUIPMENT PADS AND BASES WITH EQUIPMENT MANUFACTURERS. MECHANICAL CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS OF DUCT OPENINGS ON ROOF.
19. WHERE LARGER STUDS OR FURRING IS REQUIRED TO COVER DUCTS, PIPING CONDUITS, ETC., THE LARGER STUD OR FURRING SHALL EXTEND THE FULL LENGTH OF THE SURFACE WHERE THE FURRING OCCURS.
20. TOILET ROOMS SHALL BE PROVIDED WITH A MECHANICAL VENTILATING SYSTEM TO PROVIDE ONE (1) COMPLETE CHANGE OF AIR EVERY 15 MINUTES AND CONNECTED TO THE LIGHT SWITCH. ALSO MECHANICAL EQUIPMENT ROOMS.
21. TWO HOUR SEPARATION WALLS SHALL CONSIST OF 2-LAYERS OF 5/8" TYPE "X" DRY WALL BOTH SIDES OVER METAL STUDS FLOOR TO BOTTOM OF ROOF DECK. UNLESS OTHERWISE NOTED.
22. PROVIDE METAL TRIM OR CASING AT ALL EDGES OF PLASTER AND DRYWALL SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, UNLESS OTHERWISE NOTED.
23. ALL EXTERIOR WALL OPENINGS, FLASHINGS, COUNTER FLASHINGS, COPINGS, AND EXPANSION JOINTS SHALL BE WEATHERPROOF.
24. ALL RAMPS SHALL HAVE A MEDIUM BROOM FINISH. SEE RAMP DET. IN SHT. X1
25. ALL BUILDING INSULATION SHALL HAVE A FLAME SPREAD RATING LESS THAN 25 AND SMOKE DEVELOPED VALUE OF MAXIMUM 450.
26. FIRE STOPPING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH HORIZONTAL AND VERTICAL) AS SHOWN ON DRAWINGS AND AS REQUIRED BY CODE.
27. CONTRACTOR TO NOTIFY OWNER OF ANTICIPATED FINAL INSPECTION DATE TWO WEEKS IN ADVANCE, IN WRITING.
28. ALL REQUIRED PERMITS MUST BE OBTAINED FROM ALL GOVERNING AUTHORITIES PRIOR TO START OF CONSTRUCTION.
29. PROVIDE METAL CORNER BEAD AT ALL OUTSIDE CORNERS OF PLASTERED OR DRYWALL SURFACES, UNLESS OTHERWISE NOTED.
30. UNLESS OTHERWISE NOTED, ALL EXTERIOR AND INTERIOR EXPOSED METAL TRIM, MOLDING, FRAMES, CASING, COPING AND FLASHINGS SHALL BE PAINTED TO MATCH ADJACENT MATERIALS. COLOR TO BE TO BE APPROVED BY OWNER / DESIGNER.
31. IN ALL CASES, PROVIDE ISOLATION OF ALUMINUM FROM ADJACENT STEEL OR COAT SURFACES IN CONTACT WITH BITUMINOUS PAINT.
32. ALL GLAZING ALUMINUM SECTIONS SHALL CONFORM TO I.B.C. REQUIREMENTS OF 1/175 DEFLECTION FACTOR.
33. GENERAL CONTRACTOR TO PROVIDE SHORING FOR ALL UNDERGROUND OPEN TRENCHING AS REQUIRED FOR SAFETY.
34. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE TRENCH SIZE ALLOWING FOR REQUIRED CLEARANCE BETWEEN LINES, WHEN MORE THAN ONE SUBCONTRACTOR WILL UTILIZE THE SAME TRENCH.
35. THE CONTRACTOR IS TO NOTIFY WADHWA & ASSOCIATES, INC. WHEN THE PLUMBING AND ELECTRICAL HAS BEEN "ROUGHED IN" SO THAT LOCATION CAN BE VERIFIED BEFORE SLAB IS POURED.
36. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A LETTER OF CERTIFICATION PREPARED IMMEDIATELY AFTER FOOTINGS ARE PLACED TO CONFIRM THAT LOCATION OF FOOTINGS COMPLY WITH THE APPROVED SITE DRAWINGS. THIS SHALL BE DONE BY THE SITE CIVIL ENGINEERS AT THE CONTRACTOR'S EXPENSE. ANY DISCREPANCIES FROM THE APPROVED BUILDING LOCATION SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

## ACCESSIBILITY NOTES:

1. HAND ACTIVATED DOOR OPENING HARDWARE TO BE MOUNTED 30" TO 44" ABOVE THE FLOOR AND BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE.
2. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS AND 5 POUND FOR INTERIOR DOORS.
3. ALL REQUIRED EXIT DOORWAYS, INCLUDING OFFICE AREA, SHALL HAVE A MINIMUM 32" CLEAR OPENING WITH THE DOOR AT 90° TO THE CLOSED POSITION.
4. MAXIMUM HEIGHT OF THRESHOLD TO BE 1/2" MAXIMUM VERTICAL CHANGE AT EDGE IS 1/4" WITH A MAXIMUM BEVEL OF 45°.
5. WIDTH AND HEIGHT OF REQUIRED EXIT DOORWAYS TO COMPLY WITH IBC.
6. EXITS SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPIED, WITH LIGHT HAVING AN INTENSITY OF NOT LESS THAN ONE FOOT-CANDLE AT FLOOR LEVEL PER IBC.
7. PROVIDE EXIT SIGNS PER IBC.
8. PROVIDE APPROVED EXITING ILLUMINATION AND ILLUMINATED EXIT SIGNS PER IBC.
9. PROVIDE APPROVED PANIC HARDWARE ON EXIT DOORS PER IBC.

## GENERAL CONDITIONS:

### OBLIGATIONS WHICH THE GENERAL CONTRACTOR MUST MEET:

1. CONSTRUCT AND COMPLETE SPECIFIED CONSTRUCTION UPON DESCRIBED PROPERTY IN GOOD AND WORKMANLIKE MANNER.
2. USE ONLY NEW MATERIALS FOR CONSTRUCTION.
3. CONFORM TO PLANS AND SPECIFICATIONS SIGNED AND TO BE ALTERED DATED BY PARTIES (NOT WITHOUT WRITTEN CONSENT OF ALL PARTIES, INCLUDING ISSUER OF BUILDING PERMITS).
4. COMPLY WITH RULES, REGULATIONS, LAWS, CODES AND ORDINANCES PERTINENT TO LOCATION.
5. COMMENCE WORK WITHIN A SPECIFIED NUMBER OF DAYS AFTER RECEIPT OF NOTICE FROM OWNER, AND COMPLETE WORK WITHIN A SPECIFIED TIME.
6. PAY ALL VALID BILLS, FURNISH RECEIPT FOR BILLS UPON REQUEST, AND KEEP PROPERTY FREE FROM LIENS.
7. CARRY PUBLIC LIABILITY INSURANCE AND WORKMAN'S COMPENSATION INSURANCE COVERAGES.
8. OBTAIN APPLICABLE BONDS, IF NECESSARY AND/OR REQUIRED.
9. MAKE NO ASSIGNMENT OF CONTRACT WITHOUT BANK OR SURETY APPROVAL.
10. REMOVE ALL DEBRIS FROM PREMISES AND UNDER AREA OF STRUCTURE, AND LEAVE STRUCTURE BROOM-CLEAN AND READY FOR OCCUPANCY.
11. COOPERATE WITH LENDER AND LENDER'S AGENT IN THE DISBURSEMENT.

DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TO BE FOLLOWED.

## ABBREVIATIONS

A.B.	ANCHOR BOLTS	JAN.	JANITOR
A.C.	ASPHALTIC CONCRETE	JT.	JOINT
A/C	AIR CONDITIONING	LAM.	LAMINATED
	ACOUS. ACOUSTIC	LAV.	LAVATORY
ADJ.	ADJUSTABLE		
ALUM.	ALUMINUM	MAX.	MAXIMUM
BLDG.	BUILDING	MECH.	MECHANICAL
BLK.	BLOCK	MET.	METAL
BLKG.	BLOCKING	MFGD.	MANUFACTURED
BM.	BEAM	M.O.	MASONRY OPENING
BTWN.	BETWEEN		
CAB.	CABINET	MULL.	MULLION
C.C.	CENTER TO CENTER	MFGR.	MANUFACTURER
CEM.	CEMENT		
CER.	CERAMIC	NAT.	NATURAL
CLG.	CEILING	N.G.	NATURAL GRADE
CLOS.	CLOSET	N.I.C.	NOT IN CONTRACT
COL.	COLUMN	N.T.S.	NOT IN SCALE
CONG.	CONCRETE		
CORR.	CORRIDOR	O.A.	OVER ALL
CONT.	CONTINUOUS	O.C.	ON CENTER
CONTR.	CONTRACTOR	O.D.	OUTSIDE DIAMETER
CTSK.	COUNTERSUNK	O.F.D.	OVER FLOW DRAIN
		OPG.	OPENING
		O.T.O.	OUT TO OUT
DET.	DETAIL		
D.F.	DRINKING FOUNTAIN	PART.	PARTITION
DIA.	DIAMETER	P.D.	PANIC DEVICE
DIM.	DIMENSION	P.L.	PROPERTY LINE
D.S.	DOWN SPOUT	PL.	PLATE
DWGS.	DRAWINGS	PLAS.	PLASTER
		PLYWD.	PLYWOOD
E.D.F.	ELECTRIC DRINKING FOUNTAIN	PLBG.	PLUMBING
EA.	EACH		
E.J.	EXPANSION JOINT	R.	RISER
ELEV.	ELEVATION	RAD.	RADIUS
ELEC.	ELECTRIC	REINF.	REINFORCEMENT
EQ.	EQUAL	REQ.	REQUIRED
		R.D.	ROOF DRAIN
EQUIP.	EQUIPMENT	RM.	ROOM
EXIST.	EXISTING	R.O.	ROUGH OPENING
EXPAN.	EXPANSION	R.W.	REDWOOD
EXTER.	EXTERIOR	S.	SINK
		SECT.	SECTION
F.D.	FLOOR DRAIN	SHT.	SHEET
F.E.C.	FIRE EXTINGUISHER	SIM.	SIMILAR
F.G.	FINISH GRADE	SPEC.	SPECIFICATION
F.H.C.	FIRE HOSE CABINET	S.S.	SERVICE SINK
F.H.W.S.	FLAT HEAD WOOD SCREWS	ST.& V.	STAIN & VARNISH
		STEEL	STEEL
FIN.	FINISH	ST.STL.	STAINLESS STEEL
F.O.S.	FACE OF STUD	STD.	STANDARD
F.S.	FLOOR SINK	STRUCT.	STRUCTURAL
FT.	FOOT	SUSP.	SUSPENDED
FTG.	FOOTING		
FURN.	FURNISH	T.	THREAD
		T.B.	TOP OF BEAM
		T.C.	TOP OF CURB
GA.	GAUGE	TEL.	TELEPHONE
GALV.	GALVANIZED	T.J.	TOOLED JOINT
GL.	GLASS	TRANSF.	TRANSFORMER
GR.	GRADE		
GYP.	GYPSPUM	T.S.	TOP OF SLAB
GYP.	GYPSPUM BOARD	T.W.	TOP OF WALL
		TYP.	TYPICAL
HGT.	HEIGHT	VERT.	VERTICAL
H.M.	HOLLOW METAL	VEST.	VESTIBULE
HORIZ.	HORIZONTAL		
HTG.	HEATING	WAIN	WAINSCOT
HW.	HARDWOOD	W.C.	WATER CLOSET
I.F.B.	ISSUED FOR BIDS	WD.	WOOD
I.F.C.	ISSUED FOR CONSTRUCTION	W.H.	WATER HEATER
I.F.F.R	ISSUED FOR FRANCHISE'S FINAL REVIEW	W.C.	WATER CLOSET
		WIND	WINDOW
I.F.C.R	ISSUED FOR CUSTOMER'S FINAL REVIEW		
I.F.P.	ISSUED FOR PERMIT		
I.D.	INSIDE DIAMETER		
INT.	INTERIOR		
IN.	INCHES		

## LIST OF DRAWINGS

A	COVER	M3	HVAC DETAILS
-	SURVEY	M4	HVAC DETAILS
T1	GEN. NOTES/ABBREVIATIONS/VICINITY MAP		
SP1	SITE PLAN AND FIRE LANE PLAN	E0	ELECTRICAL NOTES AND SCHEDULE
SU1	SITE UTILITY AND LIGHTING PLAN	E1	LIGHTING PLAN
X1	PAVING AND SITE DETAILS	E1A	ROOF LEVEL LIGHTING PLAN
		E2	POWER PLAN
		E3	ROOF LEVEL POWER PLAN
C1	GRADING & DRAINAGE PLAN	E4	LOAD ANALYSIS AND ONE LINE DIAGRAM
C2	STANDARD DETAILS	E5	PANEL SCHEDULE
C3	STORM WATER POLLUTION PREVENTION PLAN		
		P1	PLUMBING FLOOR PLAN
A0	ACCESSIBILITY STANDARDS	P2	PLUMBING NOTES AND SCHEDULES
A0.1	ACCESSIBILITY ROUTES AND SITE DETAILS	P3	PLUMBING RISERS
A0.2	GENERAL ACCESSIBILITY DETAILS	P4	PLUMBING DETAILS
A0.3	ACCESSIBILITY PLUMBING DETAILS	P5	PLUMBING DETAILS
A0.4	MISC. ACCESSIBILITY DETAILS		
A1	FLOOR PLAN		
A1.1	ROOF PLAN		
A1.2	WALL TYPES AND GENERAL NOTES		
A1.3	EQUIPMENT PLAN		
A1.4	REFLECTED CEILING PLAN		
A2	EXTERIOR ELEVATIONS		
A2.1	EXTERIOR ELEVATIONS		
A3.1	ENLARGED RESTROOM DETAILS		
A4	BUILDING SECTION		
A5	DETAIL SECTIONS		
A6	INTERIOR ELEVATIONS		
A7	DOORS AND WINDOWS SCHEDULES		
A7.1	ROOM FINISH SCHEDULE		
F1	FOUNDATION PLAN		
F2	FOUNDATION DETAILS		
S0	STRUCTURAL NOTES		
S1	FRAMING PLAN		
S2	STRUCTURAL DETAILS		
M0	MECHANICAL NOTES AND SCHEDULES		
M1	MECHANICAL PLAN		
M2	MECHANICAL ROOF PLAN		

### EGRESS COMPONENTS:

Doors at 0.2 per Load or min. of 32"

MEANS OF EGRESS: (Reference 1005.1)

Component	Requirements	Provided
- # of Exits	- 1 (minimum)	- 1
- Dead End Corr.	- 20' max.	- No Dead End Corri.
- Corridor Width	- 44" min	- N/A

TDLR NO. : B8819325

## VICINITY MAP



### VICINITY MAP

SCALE: NTS KEY MAP

## BLDG. CODES

### CITY OF SAN LEON

GALVESTON, COUNTY, TX

### ALL WORK PROCEDURES AND CRAFTSMANSHIP TO MEET OR EXCEED THE FOLLOWING CODES:

INTERNATIONAL BUILDING CODE	IBC 2012
FLOOD CONTROL	FEMA.
LIFE SAFETY CODE	NFPA.
INTERNATIONAL MECHANICAL CODE	IMC 2012
NATIONAL ELECTRICAL CODE	NEC 2017
INTERNATIONAL PLUMBING CODE	IPC 2012
INTERNATIONAL FIRE CODE	IFC 2012
INTERNATIONAL FUEL & GAS CODE	IFGC 2012
INTERNATIONAL ENERGY CONSERVATION CODE	IECC 2012

ASHRAE	90.1-2013
AMERICAN DISABILITIES ACT	ADAAG 2010
(with all the addendums)	

### CODE ANALYSIS

BUILDING :	SINGLE STORY NON-COMBUSTIBLE
FLOOR AREA :	7,875 SQFT.
BUILDING HEIGHT :	20'-3"
OCCUPANCY GROUP -	M
CONSTRUCTION TYPE -	II B (NON SPRINKLED)
FLOOR AREA (GROUP M) -	7,875 SQFT.
OCCUPANT LOAD (GROUP M)-	7,875/30 = 262 > 50
NO. OF EXITS REQD. -	2
EXIT ACCESS TRAVEL DISTANCE -	200 FEET MAX.
EXTERIOR WALLS -	NON RATED
INTERIOR WALLS -	NON RATED

CONTRACTOR SHALL INFORM CITY INSPECTION DEPARTMENT AND ALL OTHER GOVERNING AGENCIES PRIOR TO START OF CONSTRUCTION AND AT ALL STAGES AS REQUIRED BY ALL GOVERNING AGENCIES.

SCALE : NO SCALE

ALL DRAWINGS, SPECIFICATIONS AND NOTES SHALL REMAIN THE PROPERTY OF WADHWA AND ASSOCIATES, INC. AND NO PART THEREOF SHALL BE USED IN CONNECTION WITH ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF WADHWA AND ASSOCIATES, INC. DIMENSIONS SHALL BE FOLLOWED. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS SHALL BE FOLLOWED. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS SHALL BE FOLLOWED. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS SHALL BE FOLLOWED.

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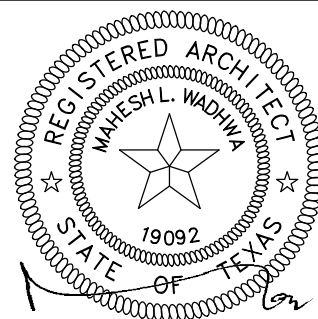
DATE : JAN 2018

## NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

### ISSUE

06-12-18 I.F.P.



DATE: 06/12/2018

## GEN. NOTES AND ABBREVIATIONS

**WADHWA AND ASSOCIATES, INC.**  
architects, planners  
and construction administration  
1220 BiLock #230 Ph: (713) 465-0009  
Houston, Texas 77055 Fax: (713) 465-2391

### REVISIONS

04-17-17 REVISED AS NOTED

JOB NO.

18-02-003

SHEET NO.

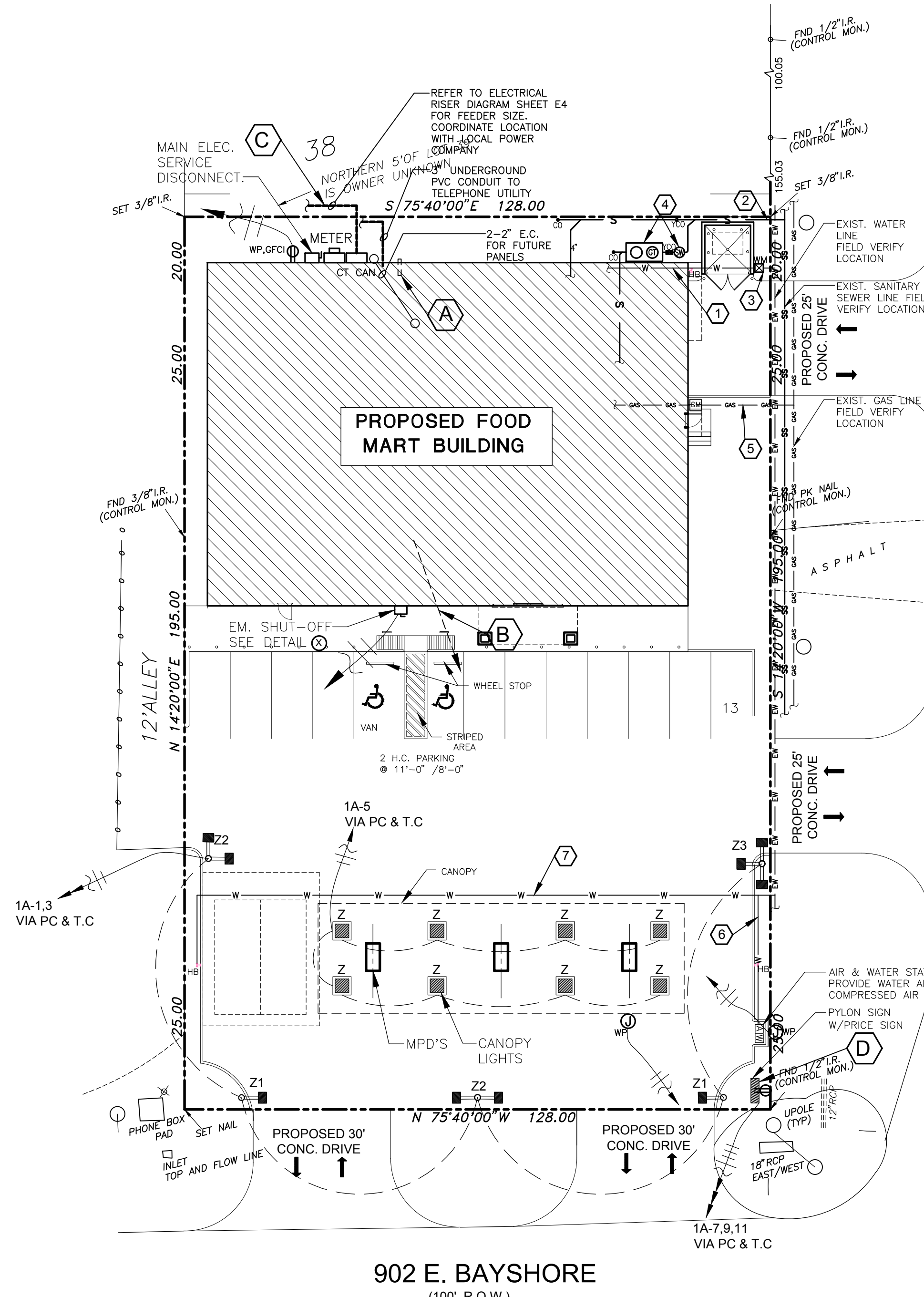
T1

FOOD MART - BAYSHORE



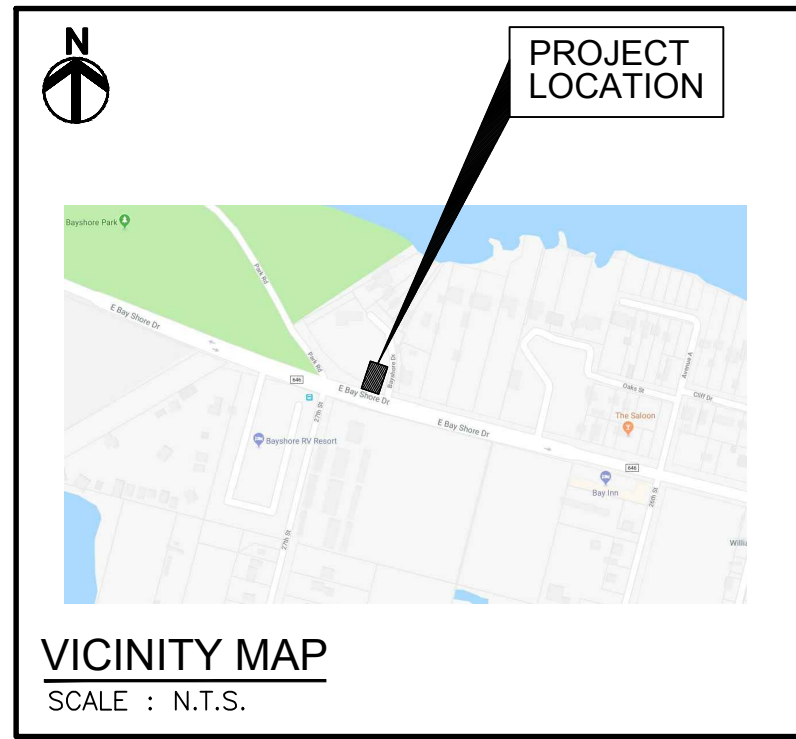
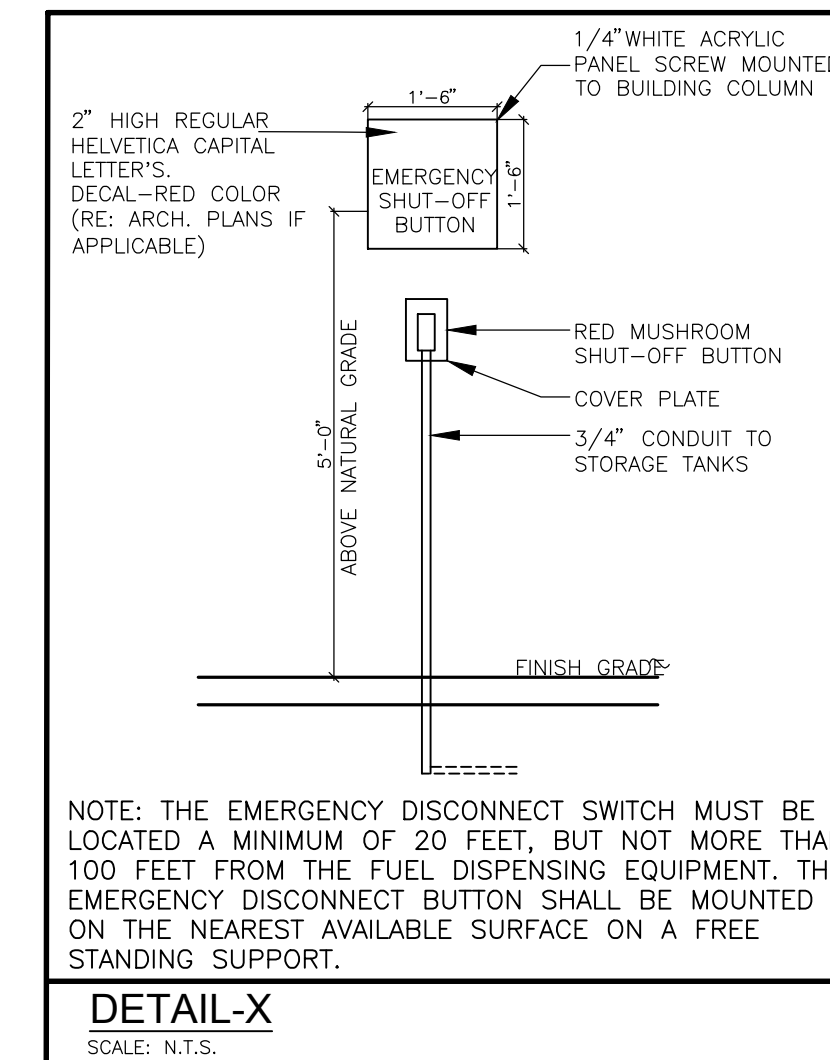






LUMINAIRE SCHEDULE							
Symbol	Label	Qty	Catalog Number	Description	Lamp	Pole	Watts
	Z1	2	STAR LIGHTING # 220LED5K	LED PARKING LOT POLE LIGHT COLOR: WHITE	LED 220W	20' 4X4 SQUARE POLE (SUITABLE FOR 110 MPH WIND LOAD-3 SEC GUST) COLOR: WHITE	220 W/ 120-277V
	Z2	2	STAR LIGHTING # 220LED5K	LED PARKING LOT POLE LIGHT COLOR: WHITE	LED (2) 220W	20' 4X4 SQUARE POLE (SUITABLE FOR 110 MPH WIND LOAD-3 SEC GUST) COLOR: WHITE	440 W/ 120-277V
	Z3	1	STAR LIGHTING # 220LED5K	LED PARKING LOT POLE LIGHT COLOR: WHITE	LED (3) 220W	20' 4X4 SQUARE POLE (SUITABLE FOR 110 MPH WIND LOAD-3 SEC GUST) COLOR: WHITE	660 W/ 120-277V
	Z	8	STAR LIGHTING # STR-CP-130WF01	LED CANOPY LIGHT COLOR: WHITE	LED 130W	-	130 W/ 120-277V

- KEYED NOTES**
- ① 2" C.W. FOR BLDG.
  - ② 4" SAN SWR CONNECT TO EXISTING SAN SEWER MAIN.
  - ③ 2" WATER METER IN APPROVED BOX W/ RPZ BACK FLOW PREVENTOR
  - ④ GREASE TRAP W/SAMPLE WELL, SEE PLUMBING DRAWINGS FOR DETAILS.
  - ⑤ 3" GAS LINE. VERIFY AND COORDINATE LOCATION/DIRECTION WITH SERVICE PROVIDER.
  - ⑥ 1/2" C.W. FOR WATER STATION.
  - ⑦ 3/4" C.W. FOR HOSE BIB



**NOTE:**

- SEE SHT. SP1 FOR SITE PLAN
- SEE ELECTRICAL DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
- SEE PLUMBING DRAWINGS FOR ADDITIONAL PLUMBING REQUIREMENTS.
- SEE MECHANICAL DRAWINGS FOR ADDITIONAL MECHANICAL REQUIREMENTS.

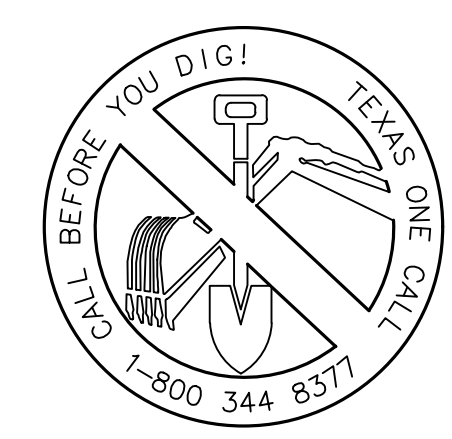
LEGEND	
=====	4" PVC SLEEVE FOR IRRIGATION
—W—	PROPOSED WATER LINE
—S—	PROPOSED SANITARY SEWER LINE
—EW—	EXISTING WATER LINE
—SS—	EXISTING SANITARY SEWER LINE
—GAS—	GAS LINE
	GAS METER
	WATER METER
	SURFACE CLEAN OUT
	CLEAN OUT
	HOSE BIB

- GENERAL CONSTRUCTION NOTES:**
- DIMENSION CONTROL PLAN (SP1) PREPARED BY WADHWA AND ASSOCIATES, INC. TO BE USED IN CONJUNCTION WITH THIS PLAN FOR LOCATING ALL IMPROVEMENTS.
  - ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
  - CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION.
  - THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
  - CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION OF UTILITIES OR WORK IN THE CITY STREET RIGHT-OF-WAY.

- GENERAL CONSTRUCTION NOTES:**
- FOR DIMENSIONS SEE SITE PLAN (SP1) PREPARED BY WADHWA AND ASSOCIATES, INC. AND TO BE USED IN CONJUNCTION WITH THIS PLAN FOR LOCATING ALL IMPROVEMENTS.
  - ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
  - CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION.
  - THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
  - CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION OF UTILITIES OR WORK IN THE CITY STREET RIGHT-OF-WAY.

**NOTES**

ALL HOME RUNS TO PANEL 1A U.O.N. VIA PC & T.C. 2" C. 24" BELOW GRADE



ELECTRICAL LEGEND:	
	WEATHER PROOF ELEC. OUTLET
	JUNCTION BOX
	DISCONNECT SWITCH.
(SEE ELEC. DROS. FOR ADDITIONAL LEGEND AND FIRE ALARM SYMBOLS)	

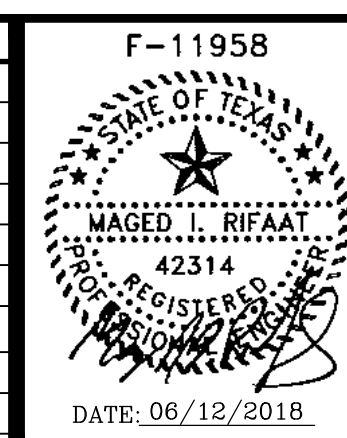
- KEYED NOTES:**
- ① 1" PVC STUB FOR IRRIGATION CONTROL ELECTRICAL.
  - ② ONE (1) 4" CONDUIT OUT TO PROPERTY LINE AS DIRECTED BY LOCAL TELEPHONE UTILITY.
  - ③ U/G ELECTRICAL SERVICE FROM UTILITY COMPANY. COORDINATE WITH UTILITY COMPANY.
  - ④ PROVIDE POWER FOR PRICE SIGN.

ALL DRAWINGS, SPECIFICATIONS, AND NOTES ARE THE PROPERTY OF WADHWA AND ASSOCIATES, INC. AND NO PART THEREOF SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF WADHWA AND ASSOCIATES, INC. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR THE LOCATION AND DEPTH OF ALL UTILITIES SHOWN ON THESE DRAWINGS. IMMEDIATELY UPON ANY VIOLATIONS FROM THESE DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH OF ALL UTILITIES SHOWN ON THESE DRAWINGS.

DRAWN:  
  
CHECKED:  
  
DATE : JAN 2018

**NEW LAWRENCE GROCERY**  
**902 E. BAYSHORE,**  
**SAN LEON, TEXAS 77539**

ISSUE	
06-12-18	I.F.P.



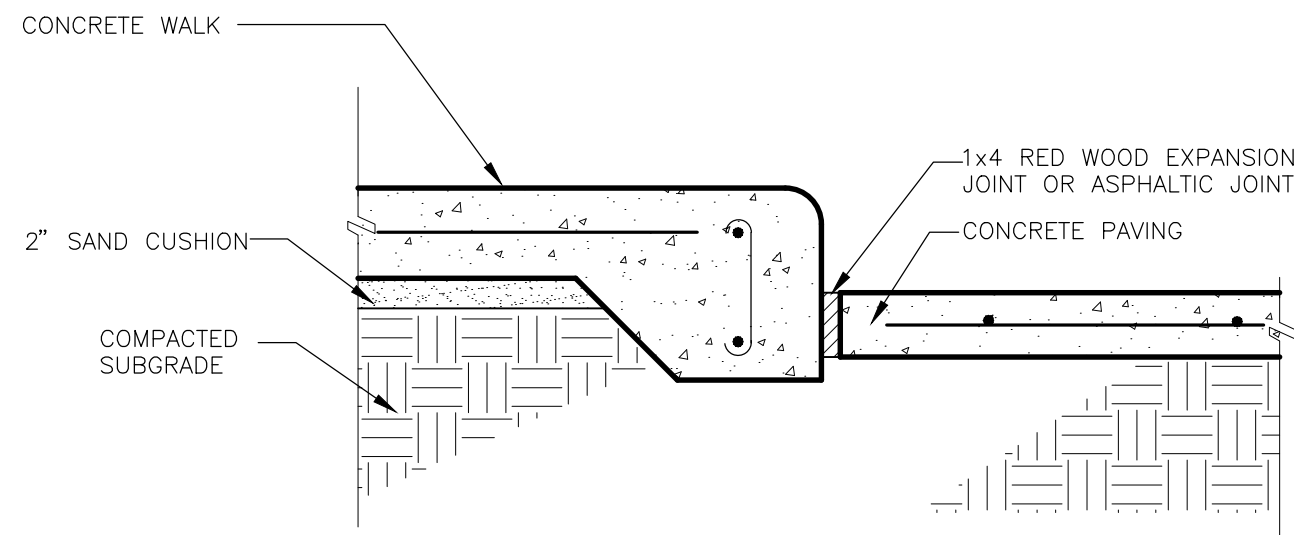
**SITE UTILITY AND LIGHTING PLAN**  
**WADHWA AND ASSOCIATES, INC.**  
architects, planners  
and construction administration  
1220 Biolock #230 Ph: (713) 465-0009  
Houston, Texas 77055 Fax: (713) 465-2391

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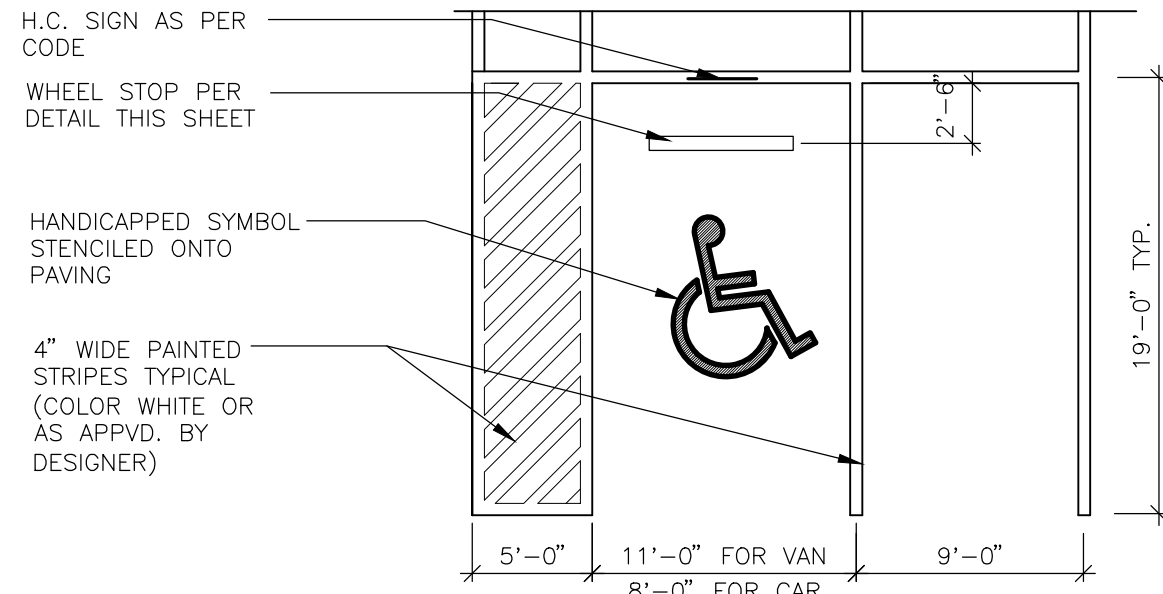
JOB NO.  
18-02-003  
SHEET NO.  
**SU1**

**SCALE : 1" = 20' - 0"**

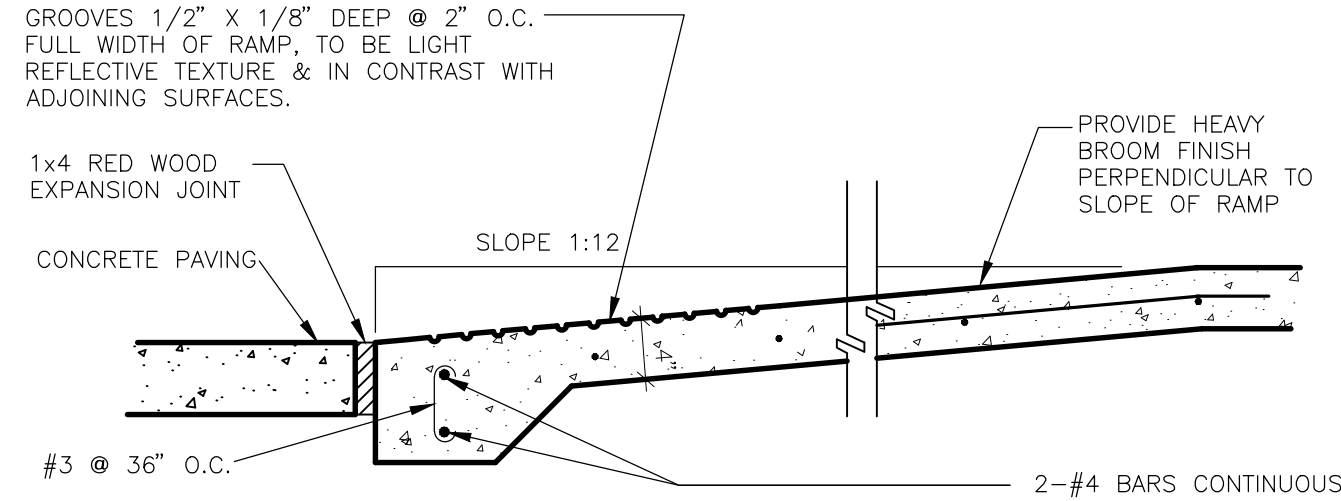




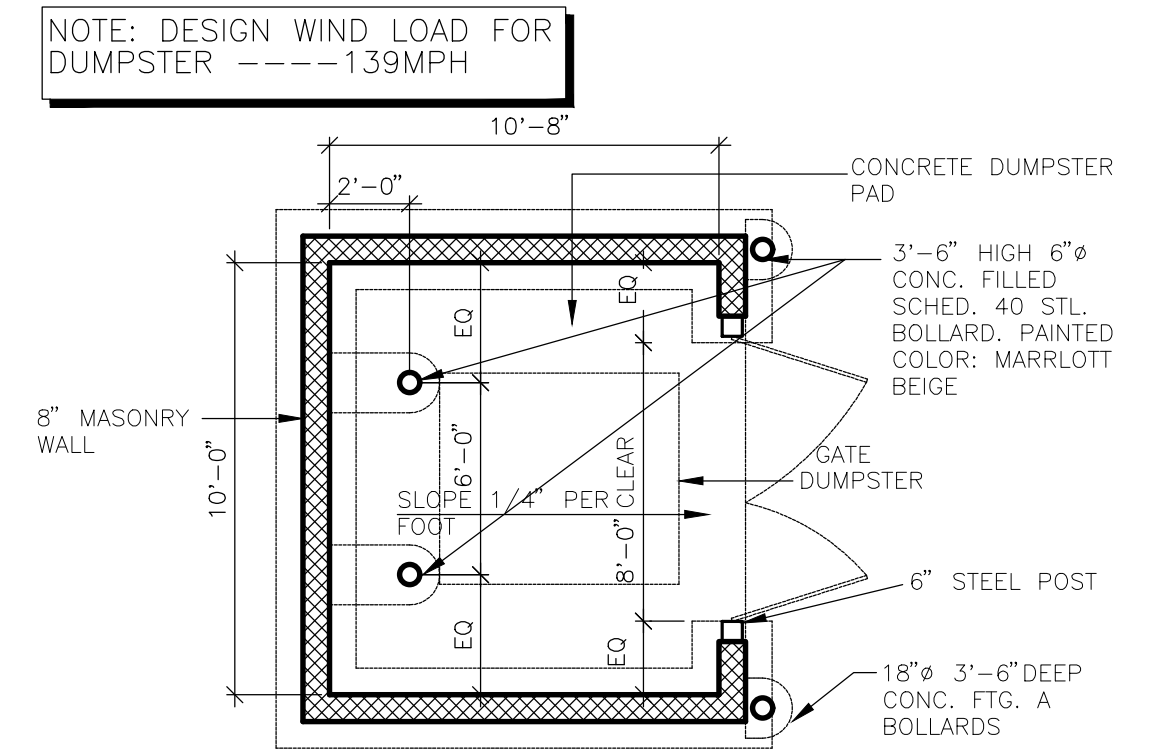
1 DETAIL  
CONCRETE WALK AT PAVING



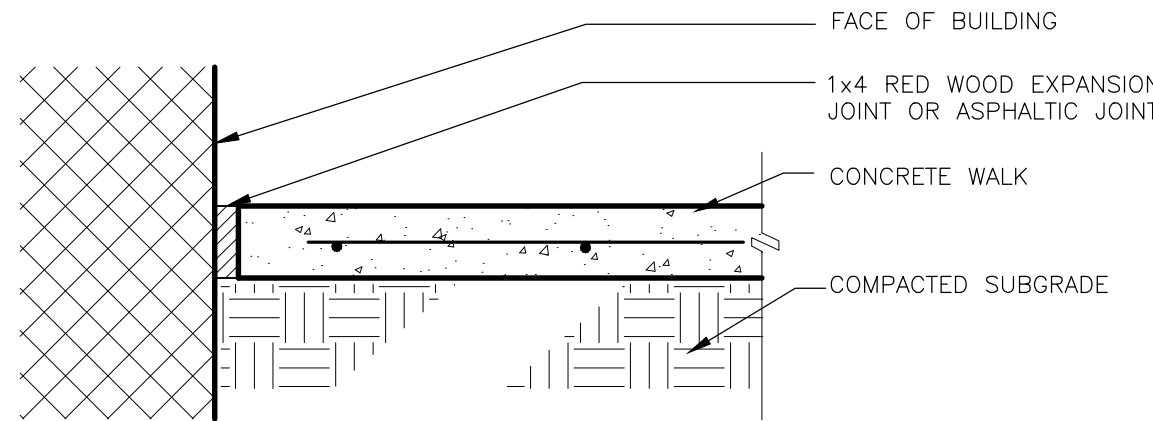
4 DETAIL  
PARKING FOR VAN AND CAR



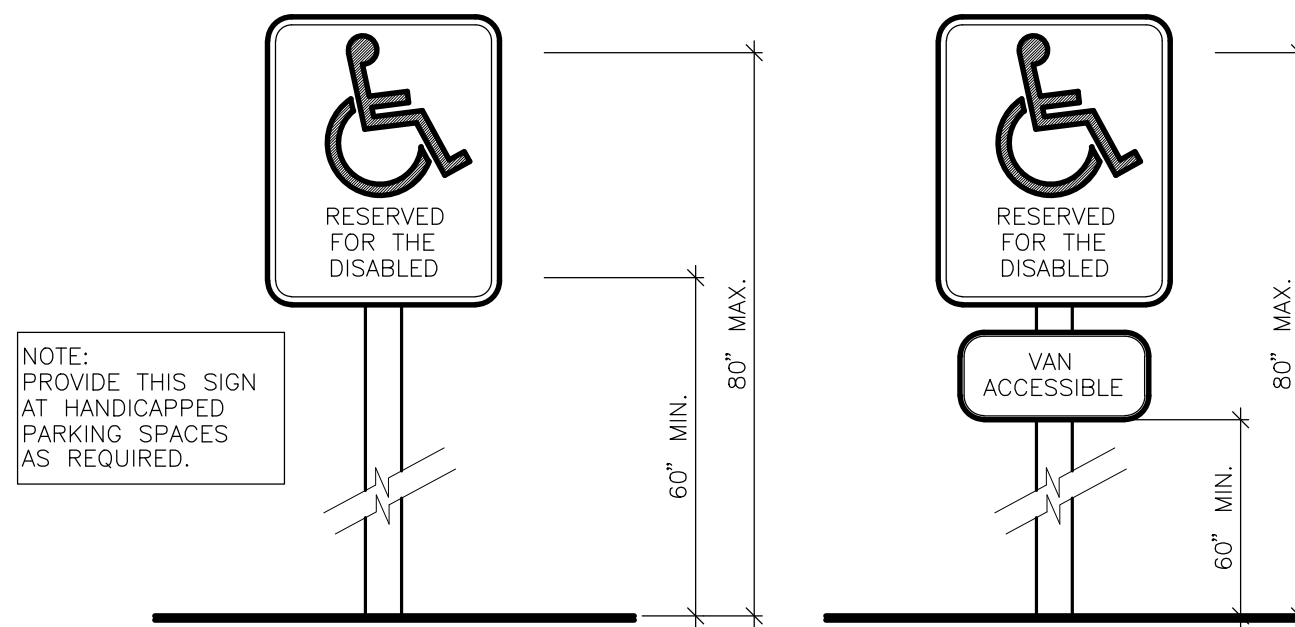
9 DETAIL  
RAMP DETAIL



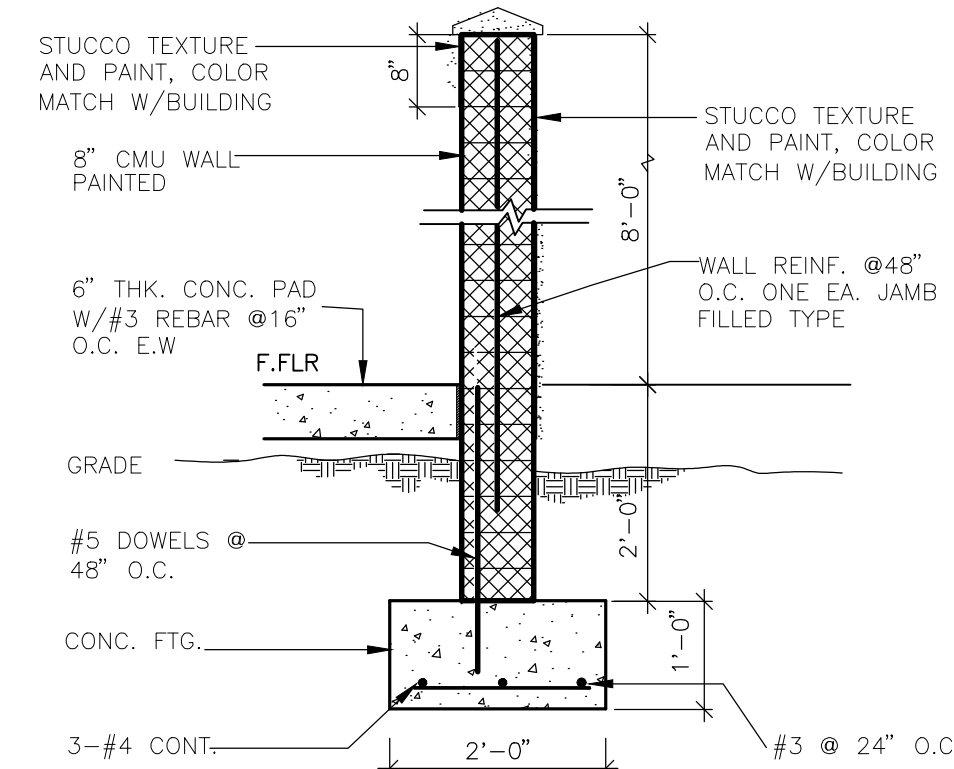
10 DUMPSTER ENCLOSURE PLAN  
SCALE : NTS



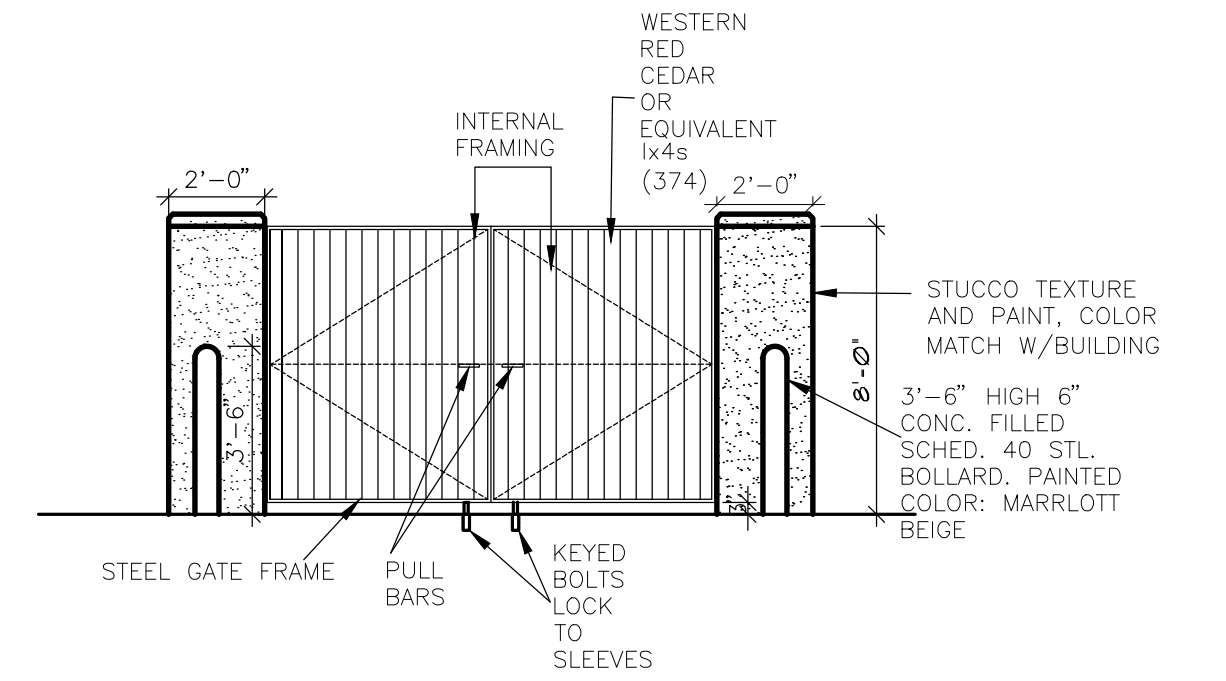
2 DETAIL  
BUILDING AT CONCRETE WALK



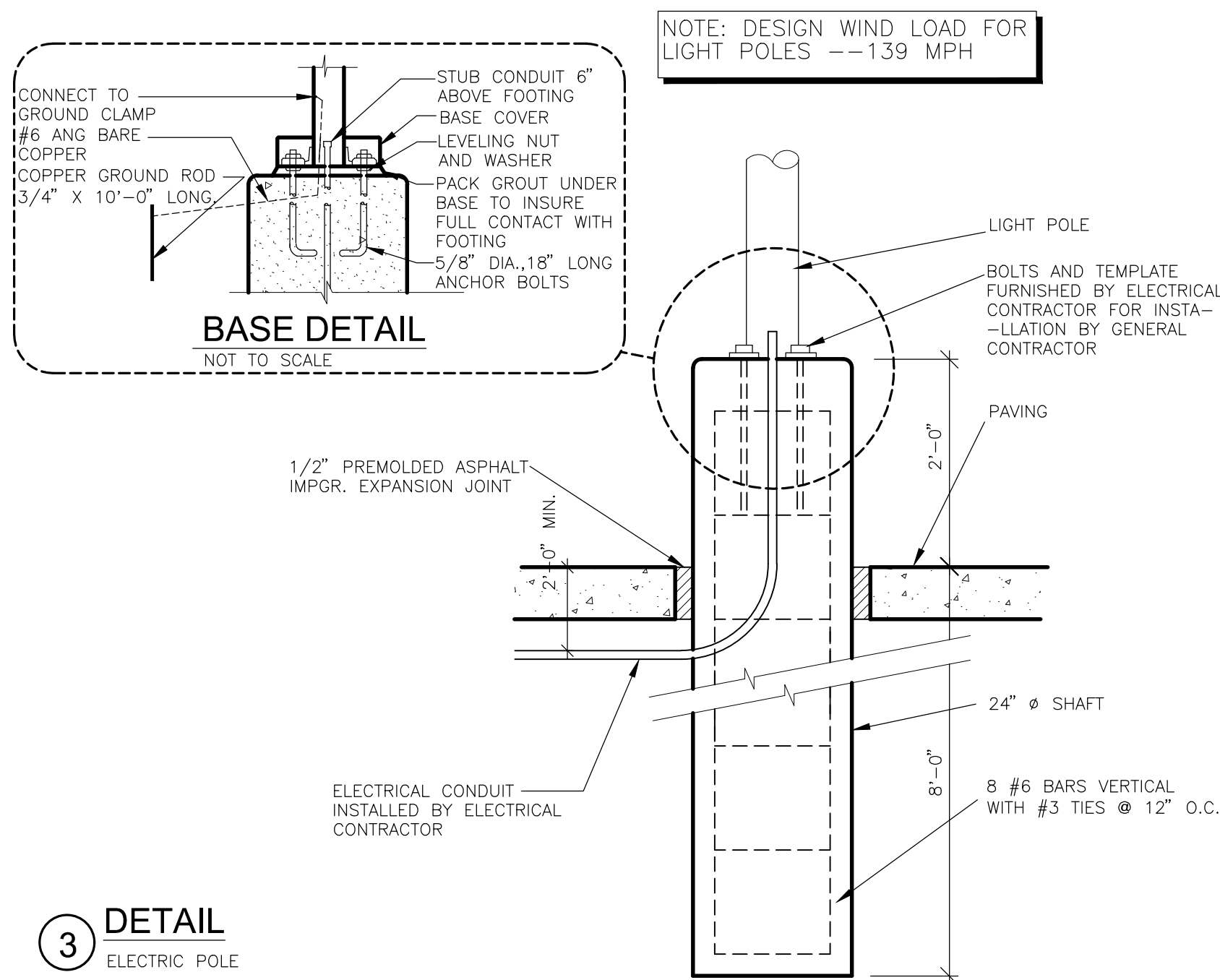
5 DETAIL  
H.C. SIGN



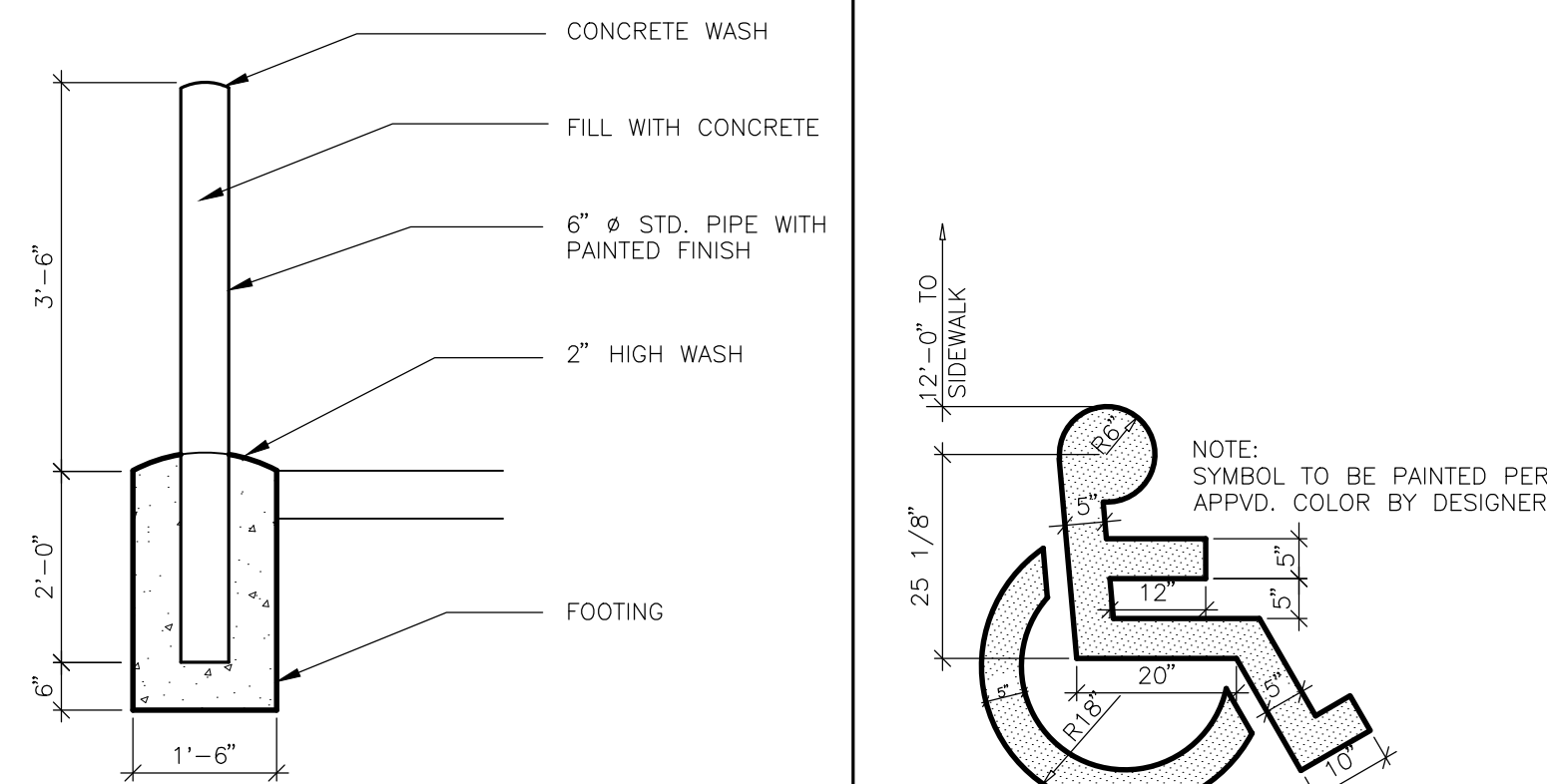
11 SCREEN WALL DETAIL  
SCALE : NTS



12 GATE ELEVATION  
SCALE : NTS

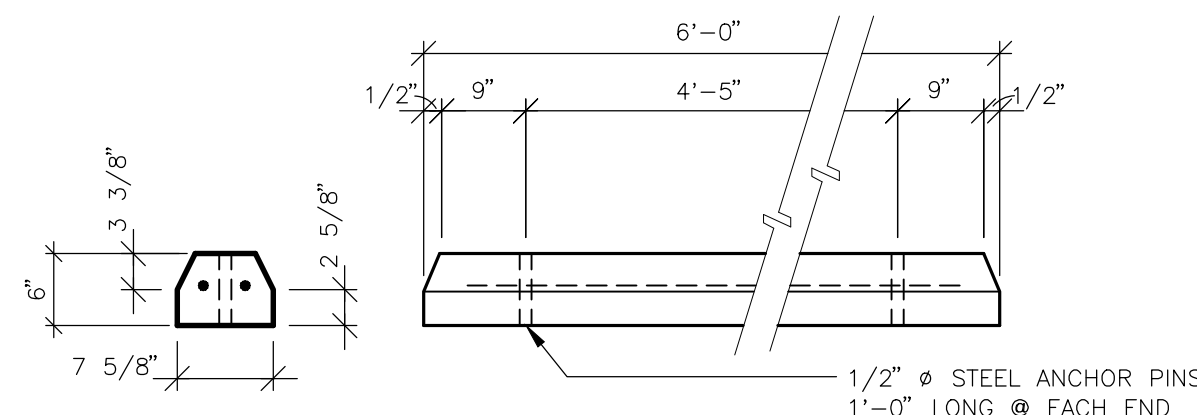


3 DETAIL  
ELECTRIC POLE



7 DETAIL  
GUARD POST

6 DETAIL  
INTERNATIONAL HANDICAP SYMBOL



8 DETAIL  
WHEEL STOP

ALL DRAWINGS, SPECIFICATIONS, AND NOTES ARE TO BE USED IN CONNECTION WITH THE CONTRACT AND NO PART THEREOF SHALL BE USED IN CONNECTION WITH ANY OTHER PROJECT OR FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF WADHWA AND ASSOCIATES, INC. DIMENSIONS SHALL BE FOLLOWED, DO NOT SCALE. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR THE ACCURACY OF ALL DIMENSIONS AND CONDITIONS ON THE JOB AND IMMEDIATELY OF ANY VIOLATIONS FROM THE DRAWINGS TO THE FIELD. DIMENSIONS SHALL BE SHOWN IN THE DRAWINGS.

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CHECKED:

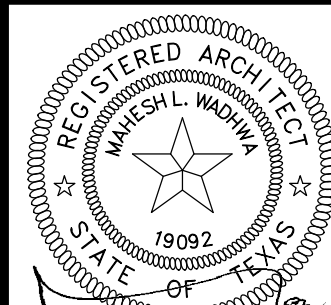
DATE : JAN 2018

NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

ISSUE

06-12-18 I.F.P.



DATE: 06/12/2018

PAVING AND SITE DETAILS

**WA** WADHWA AND ASSOCIATES, INC.  
architects, planners  
and construction administration  
1220 BiLock #230 Ph: (713) 465-0009  
Houston, Texas 77055 Fax: (713) 465-2391

REVISIONS

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JOB NO.

18-02-003

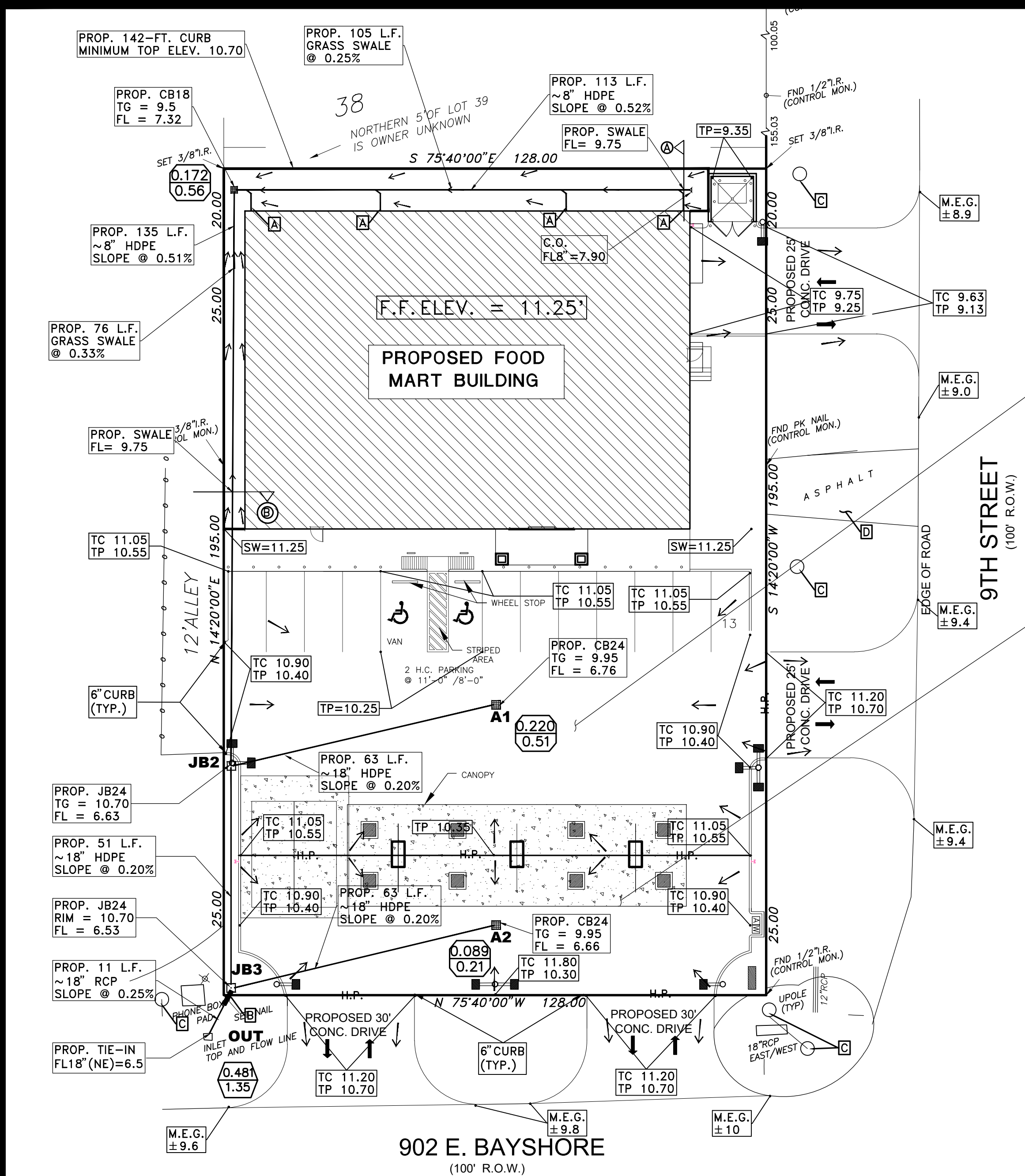
SHEET NO.

X1



FOOD MART - BAYSHORE





**EXISTING CONDITION RUNOFF CALCULATIONS**  
 TOTAL TRACT AREA = 0.573 AC.  
 C = RUNOFF COEFFICIENT  
 IMPERVIOUS AREA = 0.272 AC. (C = 0.90)  
 PERVIOUS AREA = 0.301AC. (C = 0.35)  
 CW = WEIGHTED RUNOFF COEFFICIENT  
 CW = 0.61  
 Tc = Time of concentration (Min.)  
 Tc = 10 Min.  
 I = Storm Intensities (in./hr.) RE: Table 1  
 I (10-yr) = 7.34 in./hr.  
 I (100-yr) = 10.61 in./hr.  
 Q = C x I x A  
 Q (10-yr) = 0.61 x 7.34 x 0.573 = 2.57 CFS  
 Q (100-yr) = 0.61 x 10.61 x 0.573 = 3.71 CFS

**PROPOSED CONDITION RUNOFF CALCULATIONS**  
 TOTAL TRACT AREA = 0.573 AC.  
 C = RUNOFF COEFFICIENT  
 IMPERVIOUS AREA = 0.508 AC. (C = 0.90)  
 PERVIOUS AREA = 0.065 AC. (C = 0.35)  
 CW = WEIGHTED RUNOFF COEFFICIENT  
 CW = 0.84  
 Tc = Time of concentration (Min.)  
 Tc = 10 Min.  
 I = Storm Intensities (in./hr.) RE: Table 1  
 I (10-yr) = 7.34 in./hr.  
 I (100-yr) = 10.61 in./hr.  
 Q = C x I x A  
 Q (10-yr) = 0.84 x 7.34 x 0.573 = 3.52 CFS  
 Q (100-yr) = 0.84 x 10.61 x 0.573 = 5.09 CFS

Coefficient	50% (2-year)	20% (5-year)	10% (10-year)	4% (25-year)	2% (50-year)	1% (100-year)
e	0.7839	0.7636	0.7496	0.743	0.7308	0.7295
b (in)	58.30	70.47	77.97	91.45	99.26	115.89
d (min)	11.04	12.60	13.38	14.79	14.85	16.50
Intensity (in/hr)	5.35	6.52	7.34	8.42	9.49	10.61

Intensity per TxDOT Criteria with Tc = 10 min.  
 for Galveston County, TX

TABLE 1  
 TxDOT ALLOWABLE DISCHARGE CALCULATIONS

**PROPOSED DETENTION VOLUME**  
 V1 = PARKING DETENTION VOLUME  
 PARKING AREA "A1" VOLUME = 3,730 CU.-FT.  
 PARKING AREA "A2" VOLUME = 1,737 CU.-FT.  
 TOTAL PARKING VOLUME = 5,467 CU.-FT.

**V2 = STM. SWR. PIPE VOLUME**  
 245 L.F. 8" VOLUME = 86 CU.-FT.  
 177 L.F. 18" VOLUME = 313 CU.-FT.  
 TOTAL PIPE VOLUME = 399 CU.-FT.

**V = TOTAL PROPOSED PARKING & PIPE VOLUME**  
 V = V1 + V2  
 V = 5,467 + 399 = 5,866 CU.-FT. = 0.1347 AC.-FT.

**PROPOSED VOLUME > REQUIRED 100-YR DETENTION**  
 0.1347 AC.-FT. > 0.1337 AC.-FT. --- VOLUME O.K.

**KEYED NOTES:**

A ROOF DRAIN DOWNSPOUT w/ CLEAN OUT (RE: ARCH. DWGS. FOR EXACT LOCATION AND SIZE)

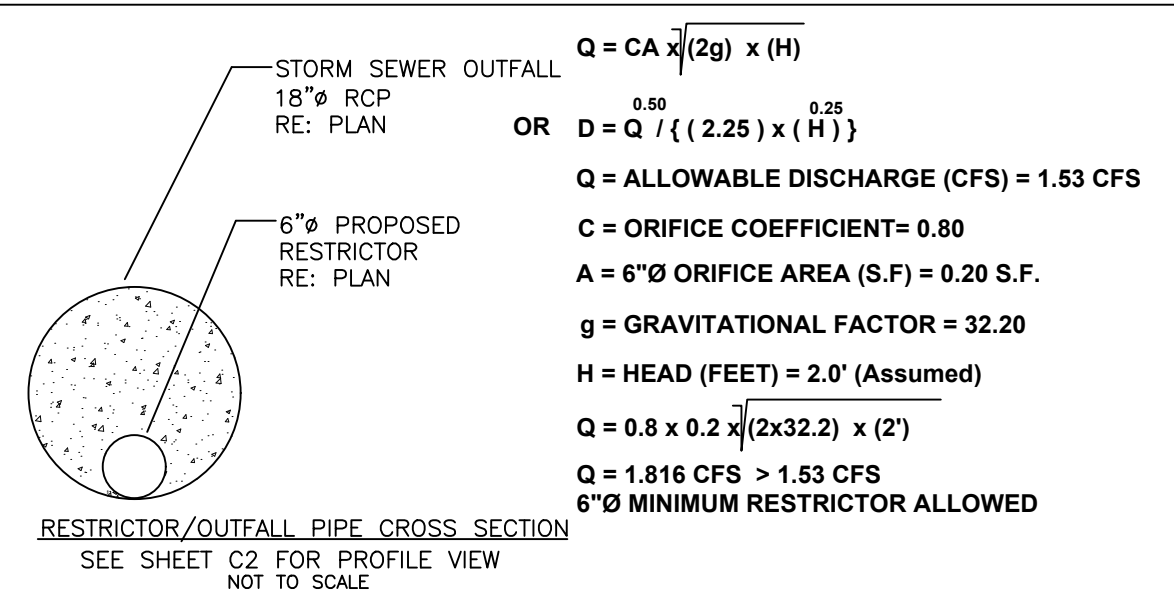
B PROP. 6" SCH40 PVC RESTRICTOR PIPE (DETAIL ON SHEET C2)

C EXISTING POWER POLE (SEE SURVEY MAP)

D CONTRACTOR SHALL REMOVE EXISTING DRIVEWAY AND APPLY EROSION CONTROL HYDRO-MULCHING FOR THE DISTURBED AREA

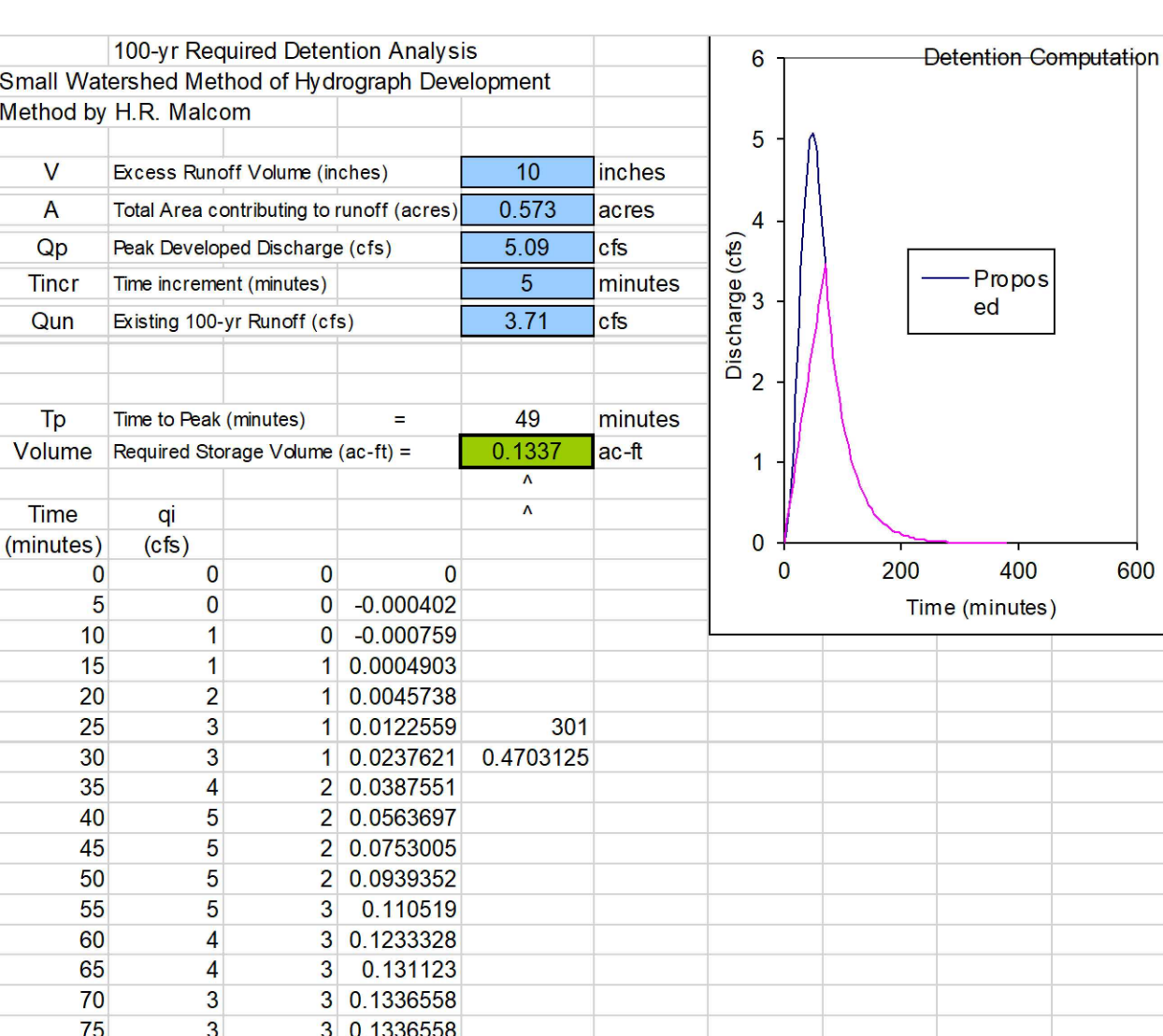
PROP. PARKING DETENTION AREA INLET A1  
 MAX. W.S.E. = 10.70  
 TG = 9.95  
 D = AVE. DETENTION DEPTH  
 D = 0.45'  
 AREA = 8,289 SQ.-FT.  
 V = DETENTION VOLUME  
 V = A x D  
 V = 8,289 x 0.45'  
 V = 3,730 CU.-FT.

PROP. PARKING DETENTION AREA INLET A2  
 MAX. W.S.E. = 10.70  
 TG = 9.95  
 D = AVE. DETENTION DEPTH  
 D = 0.45'  
 AREA = 3,859 SQ.-FT.  
 V = DETENTION VOLUME  
 V = A x D  
 V = 3,859 x 0.45'  
 V = 1,737 CU.-FT.



INTERNAL DRAINAGE SYSTEM 2-YR DESIGN

FROM INLET	TO INLET	AREA SF	AREA ACRES	AREA ACCUM	PIPE DIA.	TIME MIN	INTENSITY IN/HR	RUN-OFF C	C x I	CFS	CFS
JB1	JB2	7475	0.172	0.172	8	22	3.61	0.90	3.25	0.56	1.05
A1	JB2	9602	0.220	0.220	10	23	3.58	0.65	2.33	0.51	1.64
JB2	JB3	7533	0.000	0.362	12	15	4.30	0.65	2.80	1.10	2.38
A2	JB3	3859	0.000	0.089	10	22	3.67	0.65	2.38	0.21	1.64
JB3	OUT	0	0.000	0.481	18	15	4.30	0.65	2.80	1.35	5.30



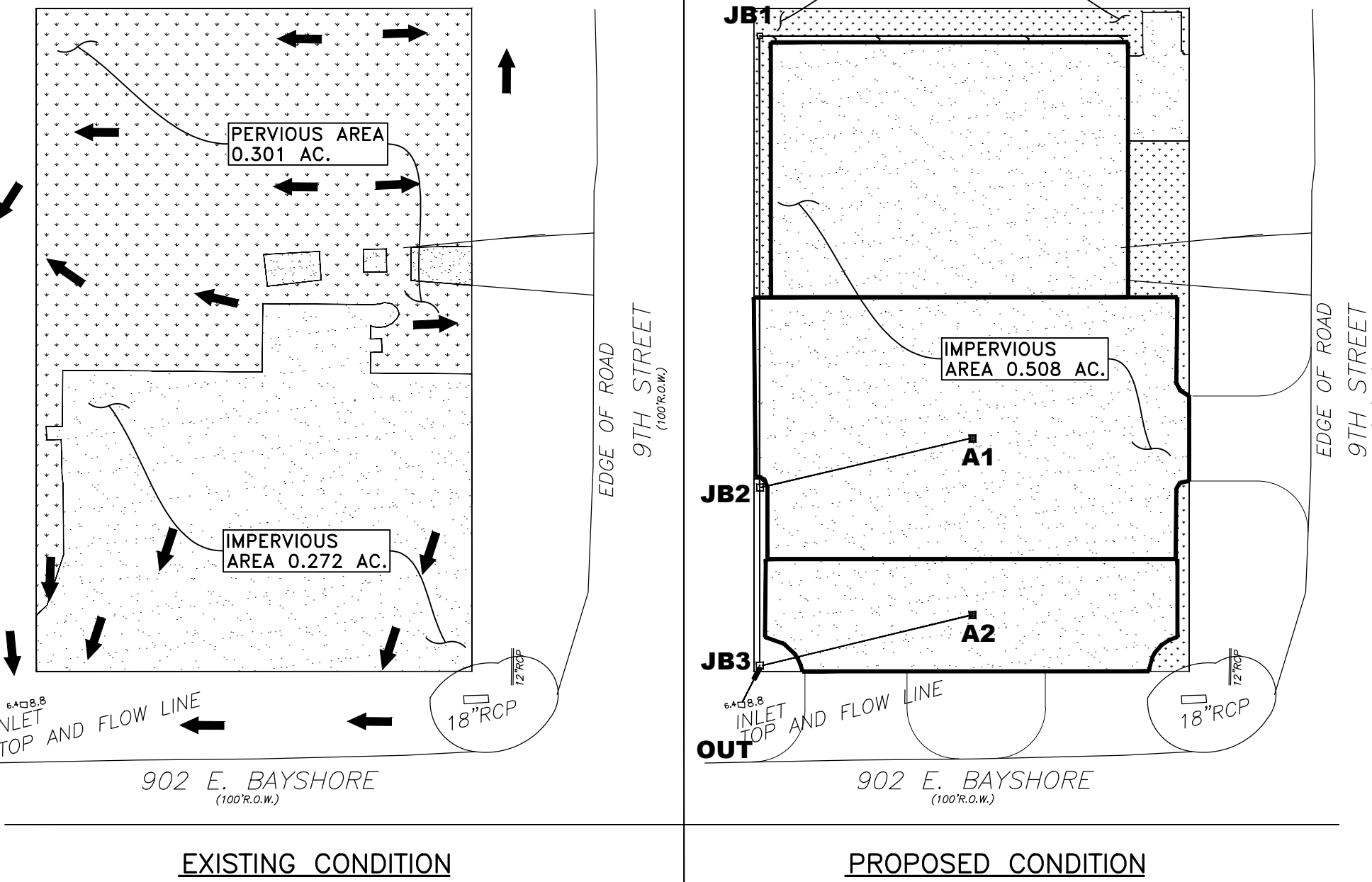
100-yr Required Detention Analysis  
 Small Watershed Method of Hydrograph Development  
 Method by H.R. Malcom

V Excess Runoff Volume (inches) 10 inches  
 A Total Area contributing to runoff (acres) 0.573 acres  
 Op Peak Developed Discharge (cfs) 5.09 cfs  
 Tinc Time increment (minutes) 5 minutes  
 Qun Existing 100-yr Runoff (cfs) 3.71 cfs

TP Time to Peak (minutes) 49 minutes  
 Volume Required Storage Volume (ac-ft) 0.1337 ac-ft

Time (minutes) q (cfs)

0 0 0 0 0  
 5 0 0 0 -0.000402  
 10 1 0 -0.000759  
 20 2 1 0.004933  
 25 3 1 0.0122559  
 30 3 1 0.0237621 0.4703125  
 35 4 2 0.0387551  
 40 5 2 0.0563697  
 45 5 2 0.0753005  
 50 5 2 0.0939352  
 55 5 3 0.110519  
 60 4 3 0.123328  
 65 4 3 0.131123  
 70 3 3 0.1336558  
 75 3 3 0.1336558



**STORM SEWER CONSTRUCTION NOTES**

- STORM SEWER PIPE TO BE POLYVINYL CHLORIDE PIPE (PVC) CONFORMING TO ASTM D-3034, SDR 35, EXCEPT AS OTHERWISE NOTED ON THE PLANS FOR 8"-15" PIPE AND ASTM F-679 FOR 18"-24" PIPE OR REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO ASTM C-76, CLASS III, EXCEPT AS OTHERWISE NOTED ON THE PLANS, OR DUCTILE IRON PIPE SHALL CONFORM TO ANSI A21.51, THICKNESS CLASS 50S1, EXCEPT AS OTHERWISE NOTED ON THE PLANS.
- ALL STORM SEWERS TO RECEIVE BEDDING AND BACKFILL IN ACCORDANCE WITH THE DETAILS CONTAINED IN THE PLANS. STORM SEWERS WITHIN PUBLIC STREET RIGHTS-OF-WAY OR EASEMENTS TO RECEIVE BEDDING AND BACKFILL IN ACCORDANCE WITH HARRIS COUNTY PUBLIC WORKS DEPARTMENT SPECIFICATIONS FOR SEWER CONSTRUCTION, ENGINEERING STANDARD.
- ALL STORM SEWER MANHOLES, GRATE, INLETS AND JUNCTION BOXES TO BE CONSTRUCTED AS SHOWN IN THE DETAILS CONTAINED IN THE PLANS.
- STORM SEWER CONSTRUCTION, INCLUDING INLETS AND MANHOLES, OUTSIDE OF PUBLIC STREET RIGHTS-OF-WAY OR EASEMENTS TO BE IN ACCORDANCE WITH THE DETAILS CONTAINED IN THE PLANS. STORM SEWER CONSTRUCTION WITHIN PUBLIC STREET RIGHTS-OF-WAY OR EASEMENTS TO BE IN ACCORDANCE WITH HARRIS COUNTY PUBLIC WORKS DEPARTMENT SPECIFICATIONS AND ENGINEERING STANDARD CONSTRUCTION DETAILS, LATEST PRINTING AND AMENDMENTS THERETO.
- ALL STORM SEWER TRENCHES UNDER PROPOSED AND FUTURE PAVEMENT OR WITHIN ONE (1) FOOT BACK OF ALL CURBS TO BE BACKFILLED WITH CEMENT-STABILIZED SAND (CLEAN BANK SAND AND \*1 1/2 SK/C.Y. MIN. PORTLAND CEMENT MIXTURE) TO A POINT ONE (1) FOOT BELOW PAVEMENT SUBGRADE AS SHOWN FOR CLASS "AA" BEDDING AND BACKFILL IN ACCORDANCE WITH THE DETAILS CONTAINED IN THE PLANS. THE REMAINING BACKFILL TO BE MADE WITH COMPACTED SELECT MATERIAL.
- WHERE MANHOLES, GRATE INLETS, OR JUNCTION BOXES ARE LOCATED WITHIN PAVED AREAS, CONTRACTOR SHALL SET RIM ELEVATIONS TO MATCH TOP OF PAVEMENT ELEVATIONS. OUTSIDE OF PAVED AREAS, SET MANHOLE RIMS AND TOP OF GRATE AT ELEVATIONS SHOWN ON THE PLANS.
- CONTRACTOR TO ALLOW A MINIMUM OF 6-INCH VERTICAL CLEARANCE BETWEEN STORM SEWER AND OTHER EXISTING OR PROPOSED UTILITIES.
- IN EVERY CASE WHERE TRENCHES ON-SITE HAVE BEEN EXCAVATED BELOW THE SPECIFIED DEPTH FOR CLASS "B" BEDDING, THE PIPE SHALL BE LAID WITH CLASS "A" BEDDING.

**GENERAL CONSTRUCTION NOTES:**

- THE SITE AS-BUILT TOPOGRAPHIC MAP, USED IN PROPOSED GRADING DESIGN, WERE PROVIDED BY THE ARCHITECT.
- ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
- CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION.
- THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS/HER FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
- CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION OF UTILITIES OR WORK IN THE CITY STREET RIGHT-OF-WAY.

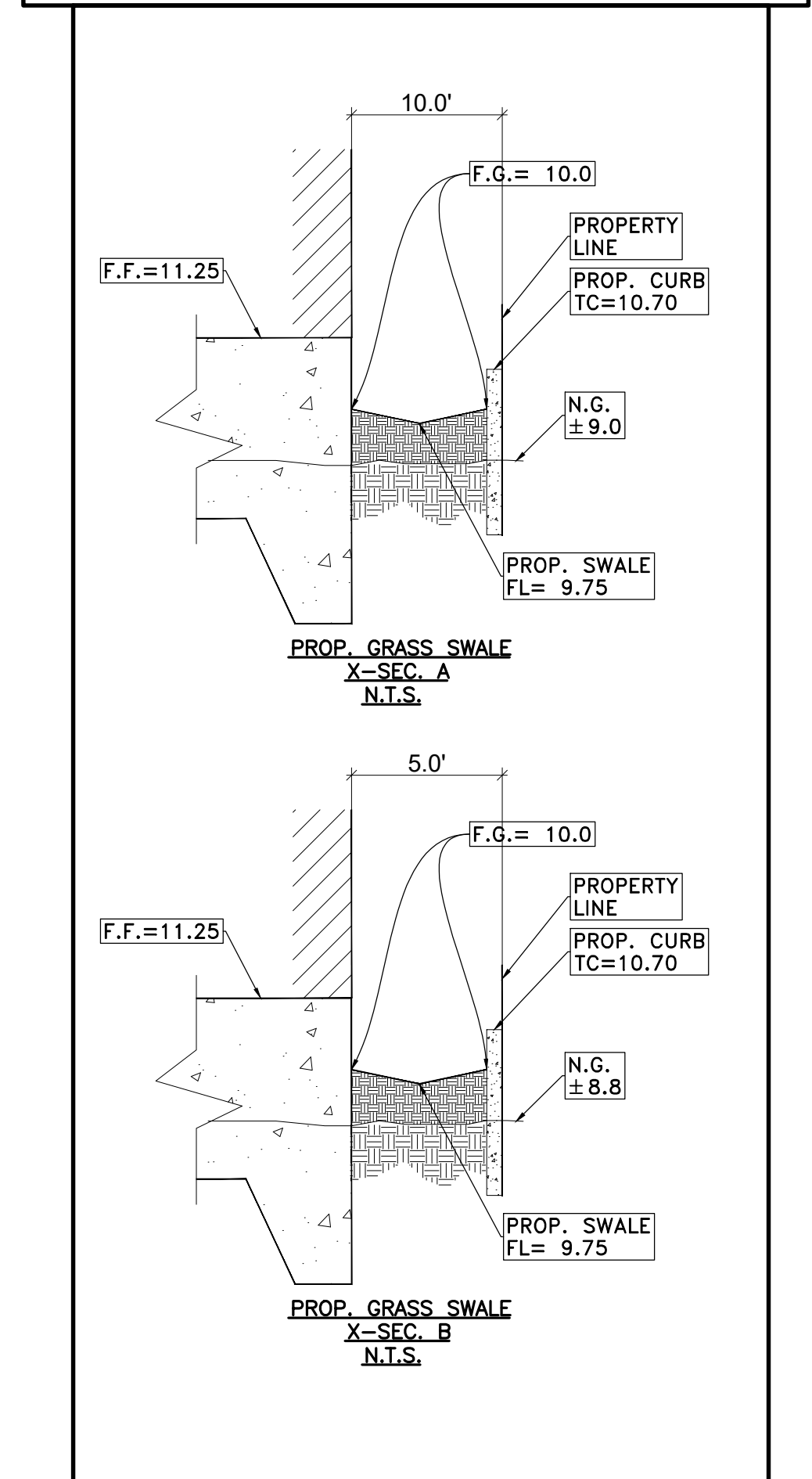
**GRADING NOTES:**

- CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AS TO NOT IMPACT ADJACENT / NEIGHBORING PROPERTIES.
- ANY AREAS OF GRASS WITHIN THE CITY'S RIGHT OF WAY WHICH ARE DISTURBED OR DUG UP DURING CONSTRUCTION SHALL BE REPLACED WITH ST. AUGUSTINE OR GRASS WHICH MATCHED THE GRASS REMOVED.
- ANY DRAINAGE TO EXISTING ROADS, DRIVEWAYS, SIDEWALKS, OR OTHER APPURTENANCES WITHIN THE CITY'S RIGHT OF WAY SHALL BE SAW CUT, REMOVED AND REPLACED WITH MATERIALS EQUAL TO OR SUPERIOR MATERIAL, AND MUST BE INSTALLED TO CITY STANDARDS.
- ALL SURFACE ORGANIC, TOPSOIL AND UNSUITABLE MATERIAL SHALL BE STRIPPED FROM ALL PROPOSED BUILDING AND PAVING AREAS.
- ALL TREE-STUMPS THAT ARE TO BE REMOVED SHALL BE DONE THOROUGHLY BY REMOVING ALL THE ROOTS AND FILLING UP THE VOID WITH SELECT FILL AND COMPACTED PRIOR TO CONSTRUCTION.
- PROOF ROLL THE SUB-GRADE TO DETECT ANY WET, SOFT OR PUMPING AREAS. TREAT THESE AREAS WITH DRYING/STABILIZING AGENTS AS NECESSARY OR REMOVE & REPLACE THEM WITH SELECT FILL.
- COMPACT THE SUB-GRADE TO A MINIMUM OF 95% OF ITS DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D 698).
- ADDITIONAL FILL MATERIAL WITHIN THE BUILDING AREA SHOULD BE SILTY OR SANDY CLAY HAVING A PLASTICITY INDEX (PI) OF 10 - 20 & A LIQUID LIMIT OF 28 OR MORE. SILL MATERIALS SHOULD BE PLACED IN 6 TO 8 INCH LIFTS & COMPACTED AT OPTIMUM MOISTURE CONTENT TO 98% OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD PROCTOR COMPACTION TEST (ASTM D 698).

**FLOOD NOTE:**  
 According to FIRM Community Panel No. 4854700105C, dated 05/02/1983, this property lies in Flood Zone "A12", which is considered to be WITHIN the Special Flood Hazard Area. Base Flood Elevation is 11'.

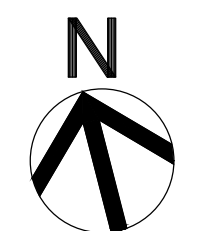
**BENCHMARK**  
 Elevations shown hereon are referenced to the published elevation of USCGS Benchmark Z-1186. (NGVD 29 DATUM)

**LEGAL DESCRIPTION**  
 BOUNDARY AND TOPOGRAPHIC SURVEY  
 LOTS 40 THROUGH 46, AND THE SOUTH 20 FEET OF LOT 39 IN BLOCK 13, SAN LEON TOWNSITE, GALVESTON COUNTY, TEXAS  
 According to the map or plat thereof recorded in Vol. 238, Page 27 in the Office of the County Clerk of Galveston County, Texas.



- LEGEND:**
- CO STM. SWR. CLEAN OUT
  - F.V. Field Verify
  - LP Light Pole
  - F.F. ELEV. Finished Floor Elev.
  - C.F. Cubic Feet
  - S.F. Square Feet
  - L.F. Linear Feet
  - TRW Top of Retaining Wall Elev.
  - M.E.G. Match Existing Grade
  - M.F.G. Match Finished Grade
  - FG Finished Grade
  - TW Top of Walkway
  - FL Flow Line
  - SW Sidewalk
  - TC34.80 Top of Curb
  - TP34.80 Top of Pavement
  - TG Top of Grate
  - 54.80 Finished Grade Elev.
  - TR Top of Rim
  - 3.78 Ground Elevation
  - Type "A" Inlet
  - JUNCTION BOX
  - Storm Sewer
  - Extreme Event Flow Path
  - Pvmt. Slope / Flow Direction
  - 6.30 ACCUM DRAINED AREA (ACRES)
  - 10.77 2-YR ACCUM FLOW RATE (CFS)
  - 1.31 AREA DRAINED PER INLET (ACRES)
  - 3.54 2-YR FLOW RATE PER INLET (CFS)

**SS&C**  
 SARAB STRUCTURAL & CIVIL, LLC  
 6503 Costa Sienna Lane  
 Houston Texas 77041 (832) 922-1145  
 FAX: (713) 896-6365  
 Firm No. F-10808



SCALE : 1" = 20' - 0"

DRAWN:  
 CHECKED:  
 DATE : JAN 2018

**NEW LAWRENCE GROCERY**  
 902 E. BAYSHORE,  
 SAN LEON, TEXAS 77539

ISSUE  
 06-12-18 I.F.P.  
 Firm No. F-10808  
 KARI'S DADELAH  
 44933  
 Date: 06-13-18

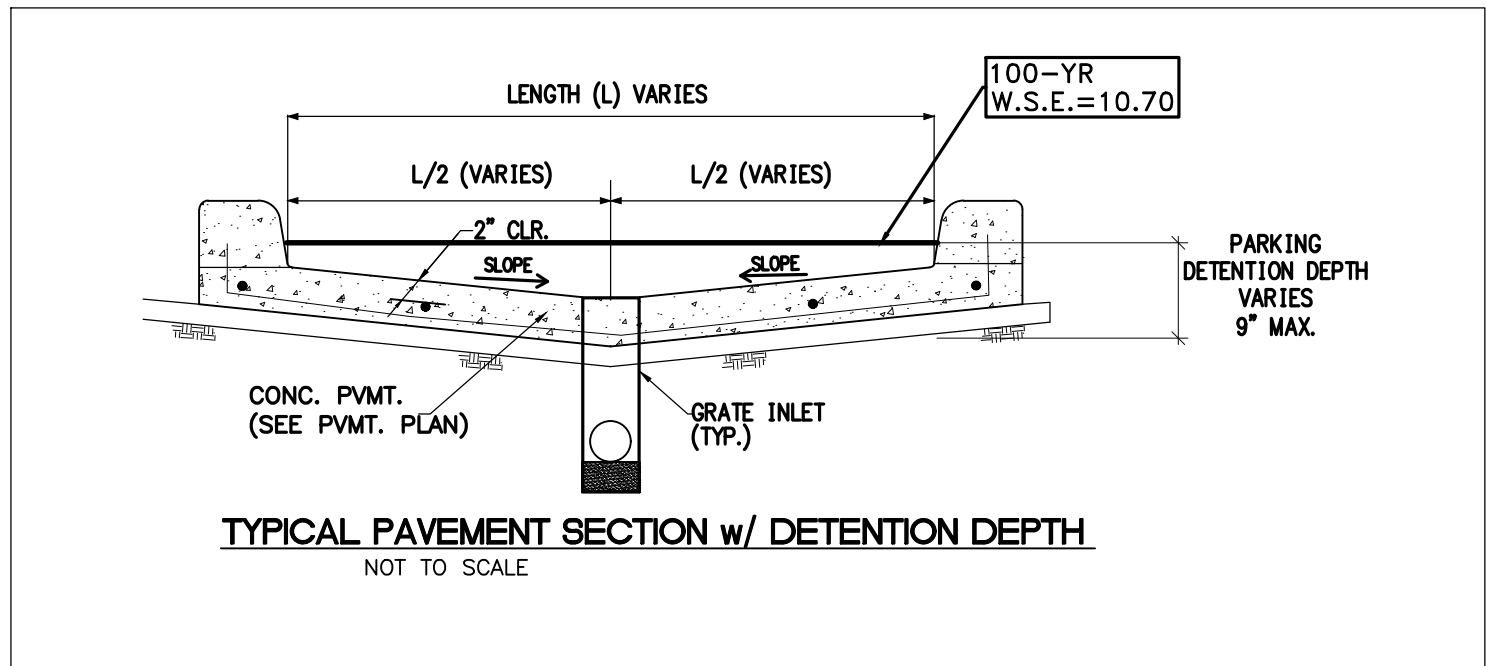
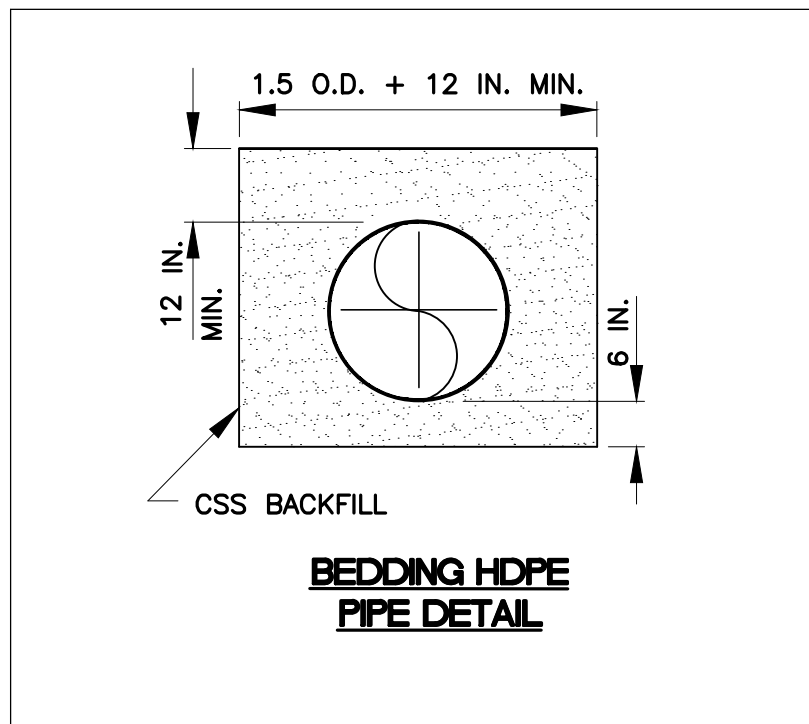
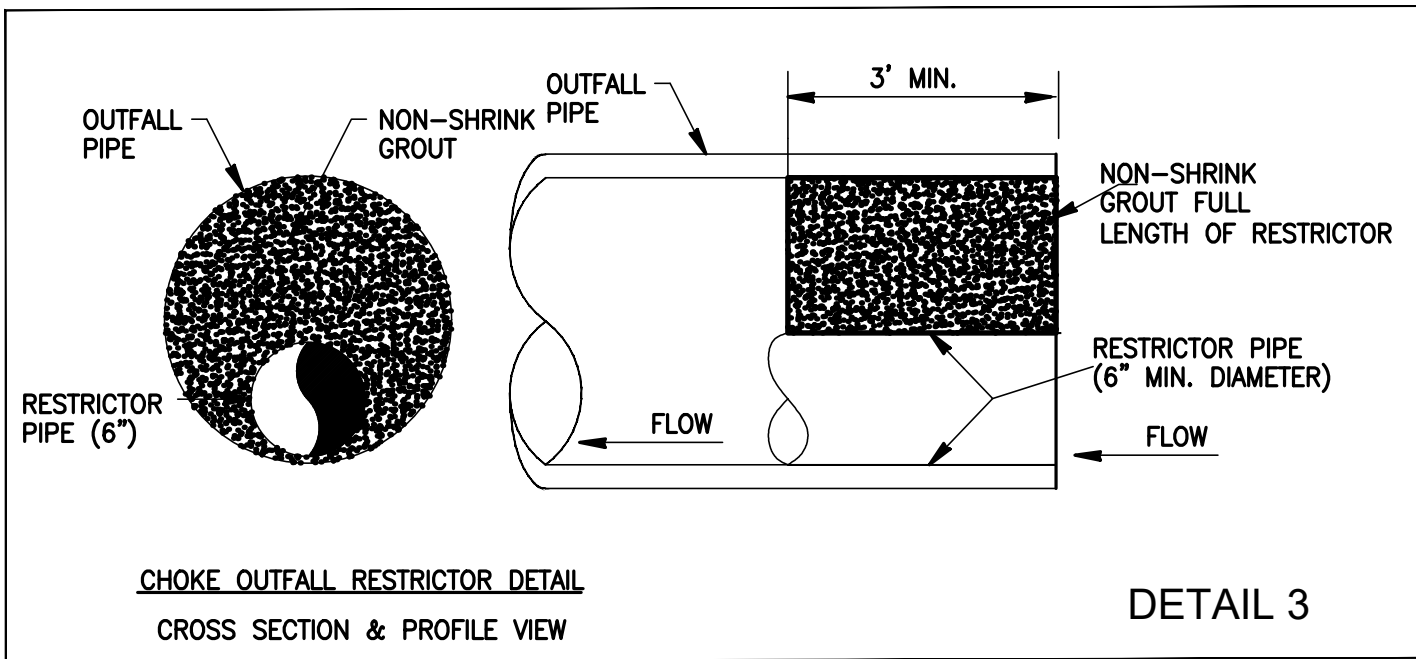
**GRADING & DRAINAGE PLAN**  
**WADHWA AND ASSOCIATES, INC.**  
 architects, planners  
 and construction administration  
 1220 Bi-Block #230 Ph: (713) 465-0009  
 Houston, Texas 77055 Fax: (713) 465-2391

**REVISIONS**

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JOB NO.  
 18-02-003  
 SHEET NO.  
**C1**





#### JUNCTION BOX AND GRATE INLET IN CONCRETE PAVEMENT.

4 - NO. 4 BARS EXTEND FULL LENGTH ACROSS BLOCK-OUT TIE EACH END TO DIAGONAL BARS  
FELT PAPER TO SEPARATE GRATE FROM CONCRETE PAVEMENT

GRATE INLET REFER TO SITEPLAN  
DEFORMED METAL CONSTRUCTION JOINT ALL 4 SIDES

OUTSIDE WALL OF INLET BOX  
(DIAGONAL) 3 - NO. 3 BARS AT 12" ON CENTER (TYPICAL)

8 - NO. 3 BARS EXTEND TO TIE TO ONE PAVEMENT REINFORCEMENT BAR EACH SIDE OF BLOCK-OUT

#### GRATE INLET CONCRETE BLOCKOUT NOT TO SCALE

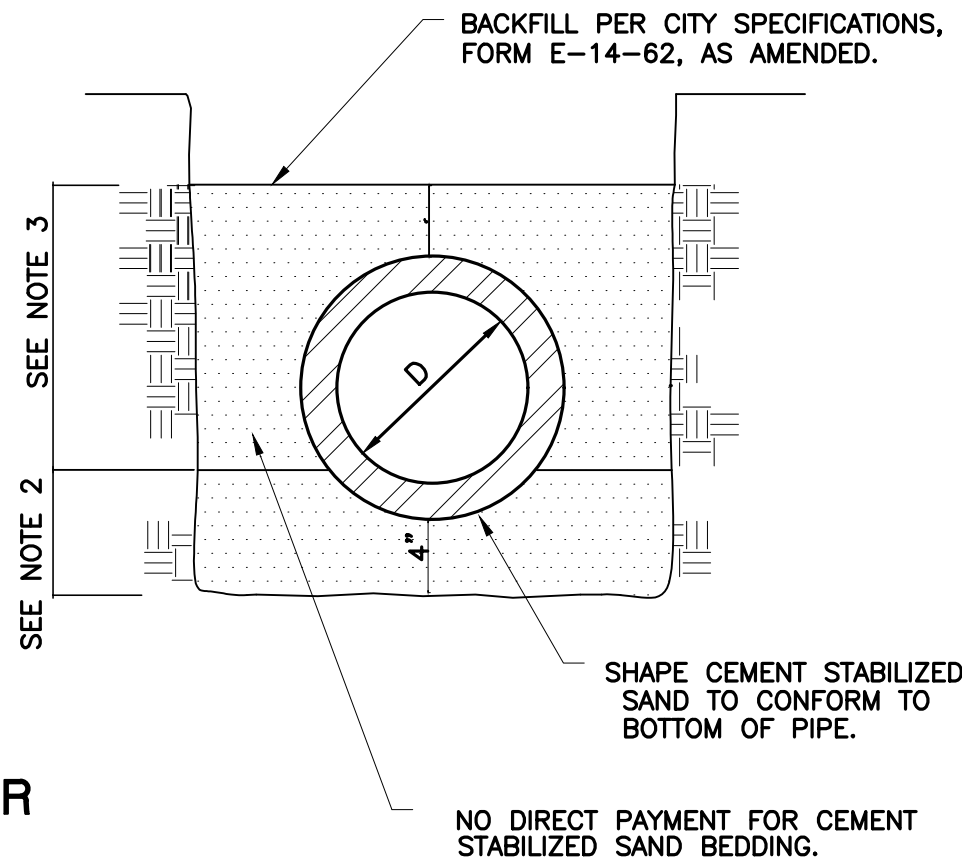
NOTE:  
THIS DETAIL IS USED FOR THE PROPOSED 18"x18" GRATE INLET IN THE DUMPSTER ENCLOSURE AREA.

#### NOTES:

1. REINFORCED CONCRETE PIPE STORM SEWERS, 36" DIAMETER AND SMALLER, MAY BE INSTALLED WITH COLD COMPOUND JOINTS OR GASKET JOINTS
2. CEMENT STABILIZED SAND PLACED BEFORE PIPE IS LAID (7" MINIMUM).
3. CEMENT STABILIZED SAND, THOROUGHLY RODDED, PLACED AFTER PIPE IS LAID.
4. WHERE SOIL CONDITIONS REQUIRE, THE ENGINEER MAY ORDER THE USE OF WASHED SHELL OR OTHER APPROVED GRANULAR MATERIAL IN LIEU OF CEMENT STABILIZED SAND BEDDING. NO DIRECT PAYMENT FOR WASHED SHELL.
5. WHERE WET SAND IS ENCOUNTERED, REINFORCED CONCRETE PIPE SEWERS SHALL BE CONSTRUCTED

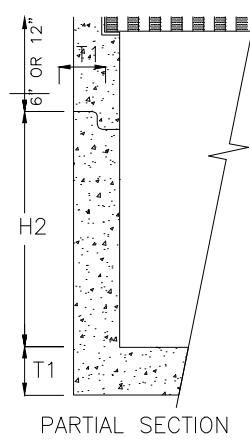
36" DIAMETER AND SMALLER

#### BEDDING FOR RCP STORM SEWER NOT TO SCALE



#### SPECIFICATIONS:

CONCRETE: CLASS 1 CONCRETE WITH OF DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.  
REINFORCEMENT: GRADE 60 REINFORCED. STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.  
C.I. CASTINGS: CAST IRON FRAMES AND GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30.



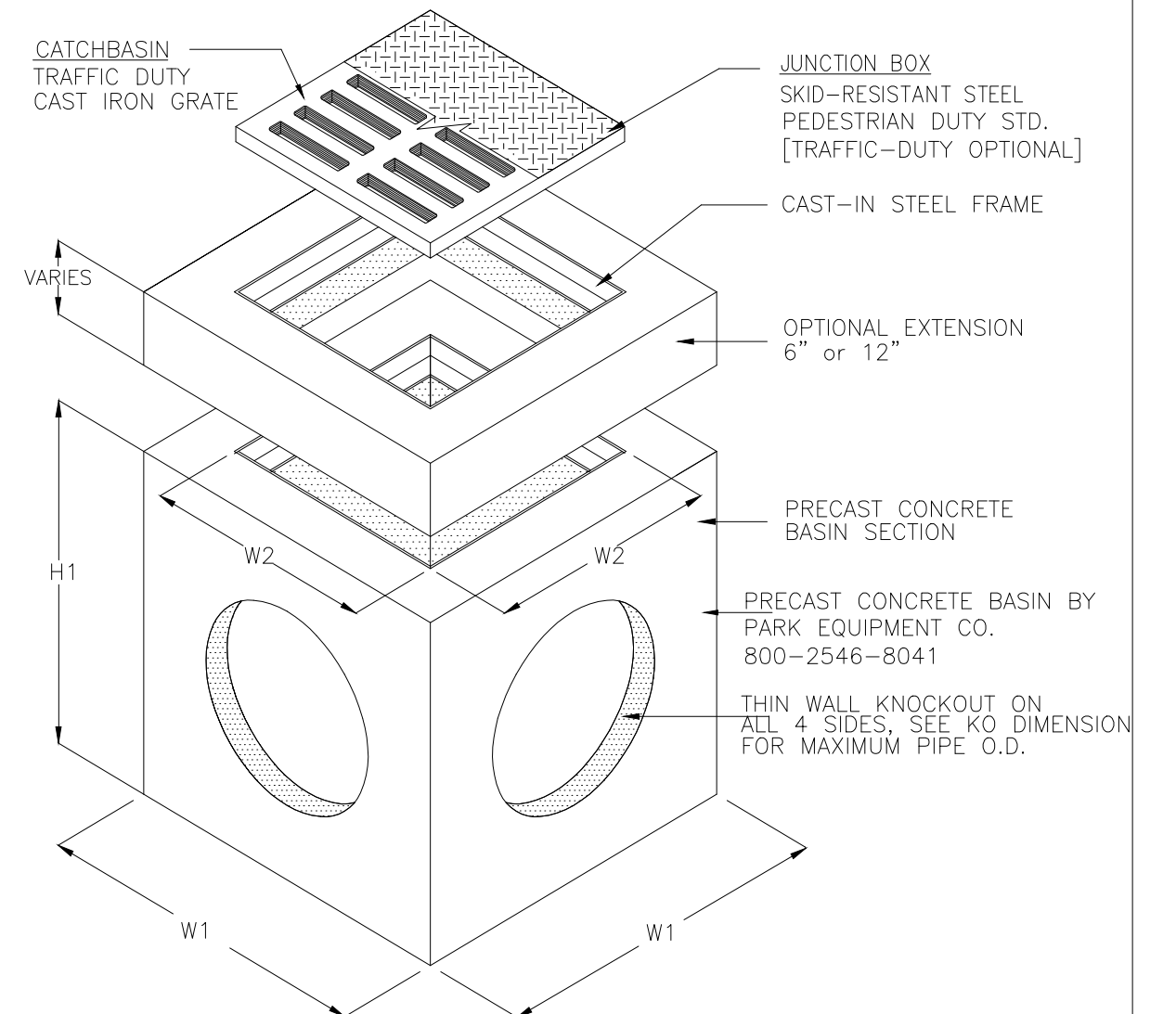
CATCHBASIN WITH DEBRI SCREEN MODEL CBS  
DWG. NO. CBS-1

MODEL #	JUNCTION BOX #	W1	W2	H1	H2	T1	KO	GRATE SIZE	WEIGHT LBS
CB12 <sup>1</sup>	JB12	15"	10"	21"	18"	2"	10"	12"x12"x1"	180
CB18	JB18	24"	16"	34"	30"	4"	15"	18"x18"x1½"	1,000
CB20	JB20	26"	18"	34"	30"	4"	17"	20"x20"x1½"	1,335
CB24	JB24	32"	22"	41"	36"	5"	22"	24"x24"x2"	2,245
CB27	JB27	37"	25"	42"	36"	6"	24"	27"x27"x2"	2,875
CB30	JB30	42"	30"	42"	36"	6"	30"	32"x32"x2"	3,675
CB36	JB36	48"	36"	42"	36"	6"	32"	38"x38"x2"	4,585

1. CB12 CATCHBASIN IS RATED FOR PEDESTRIAN LOADING. ALL OTHERS ARE TRAFFIC DUTY.
2. ALL JUNCTION BOXES ARE STANDARD PEDESTRIAN DUTY OR OPTIONAL TRAFFIC DUTY.

TYPE-A GRATE INLET 36" THRU 84"  
DWG. NO. CBTA3684

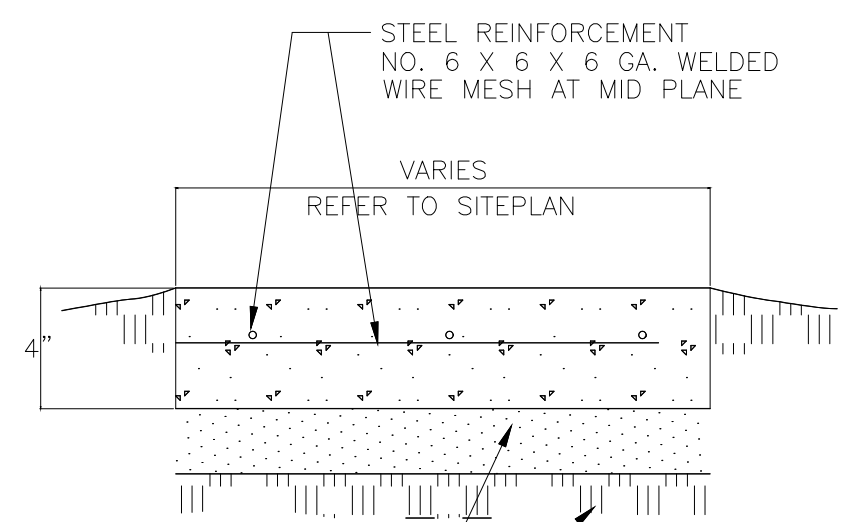
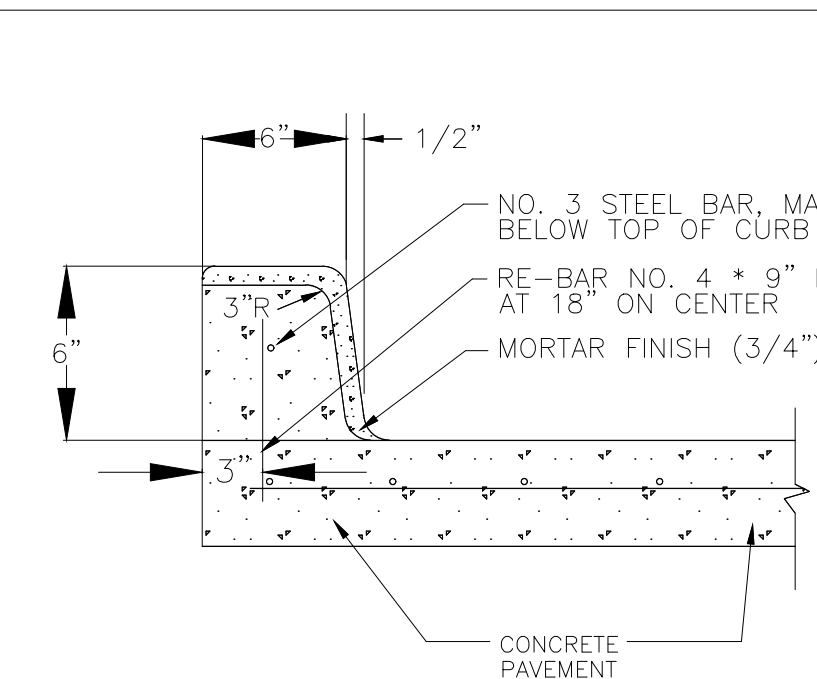
MODEL #	DIMENSIONS							
CATCH BASIN	W1	W2	H1	H2	T1	KO	GRATE SIZE	WEIGHT LBS
CBTA36	48"	36"	42"	36"	6"	36"	30"x30"	4,585
CBTA48	60"	48"	54"	48"	6"	48"	30"x30"	8,900
CBTA60	72"	60"	66"	60"	6"	60"	30"x30"	13,650
CBTA72	84"	72"	78"	72"	6"	72"	30"x30"	19,000
CBTA84	96"	83"	78"	72"	6"	84"	30"x30"	23,000



#### PRECAST CONCRETE CATCHBASIN/JUNCTION BOX

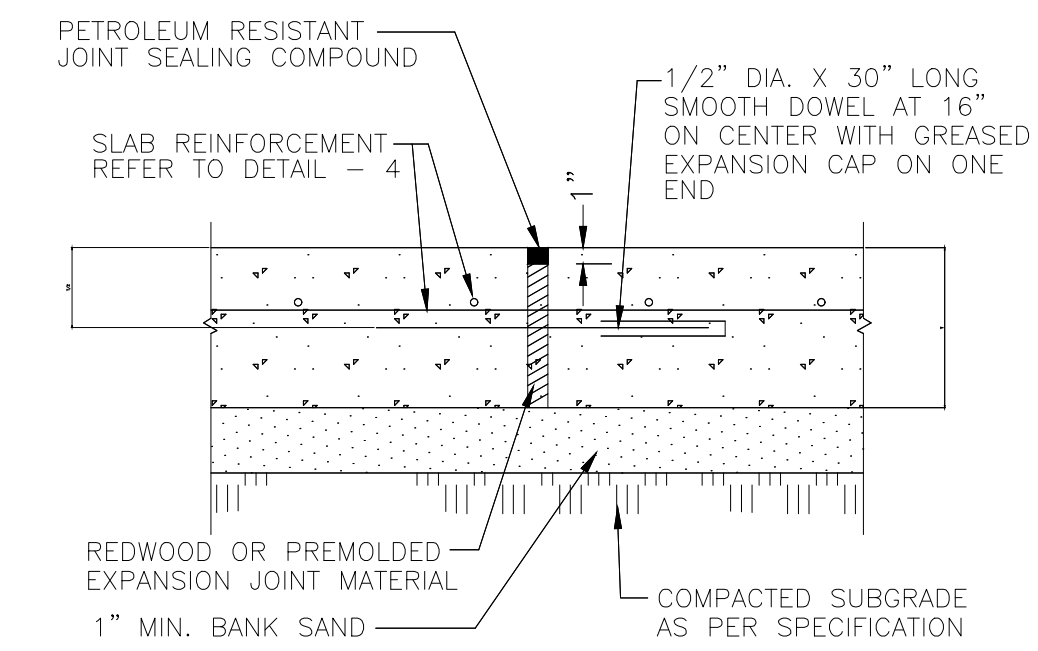
PARK ENVIRONMENTAL EQUIPMENT  
888-611-PARK  
WWW.PARK-USA.COM  
NOT TO SCALE

#### GRATE INLET JUNCTION BOX

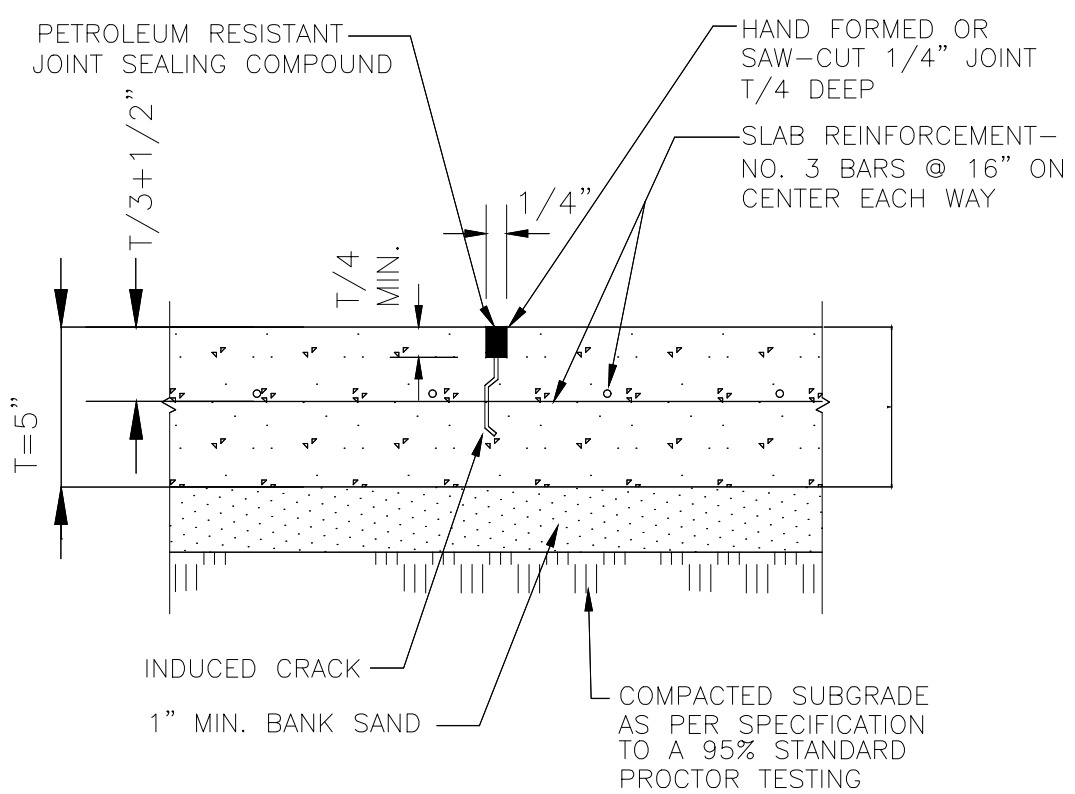


- 1" SELECTED APPROVED FILL  
COMPACTED SUBGRADE AS PER SPECIFICATION
- NOTES:  
(1) PROVIDE GROOVED JOINT AT 4' ON CENTER  
(2) PROVIDE 1/2" EXPANSION JOINT (W/O DOWEL) AT 16' ON CENTER  
(3) WIRE MESH: ASTM A-185

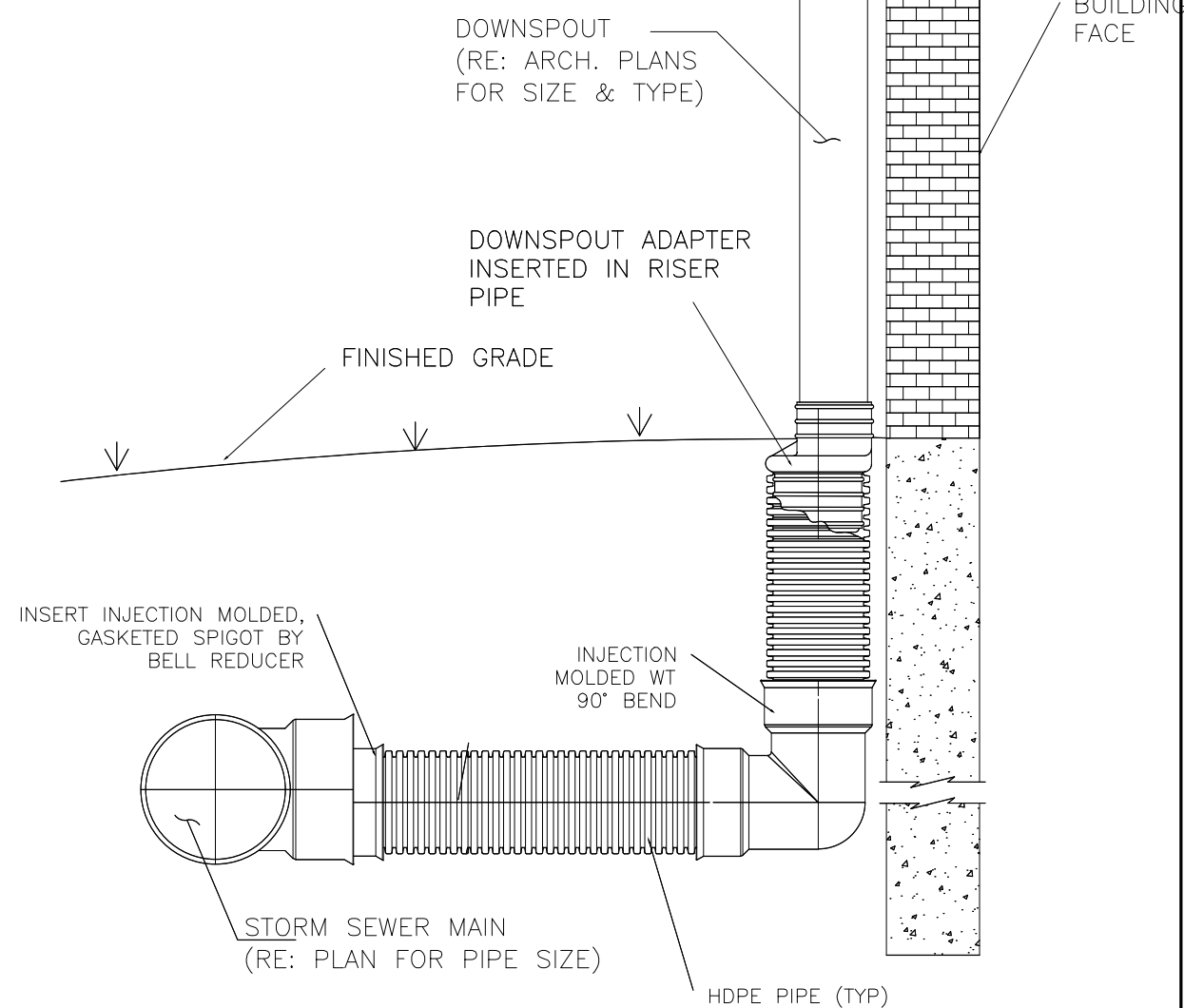
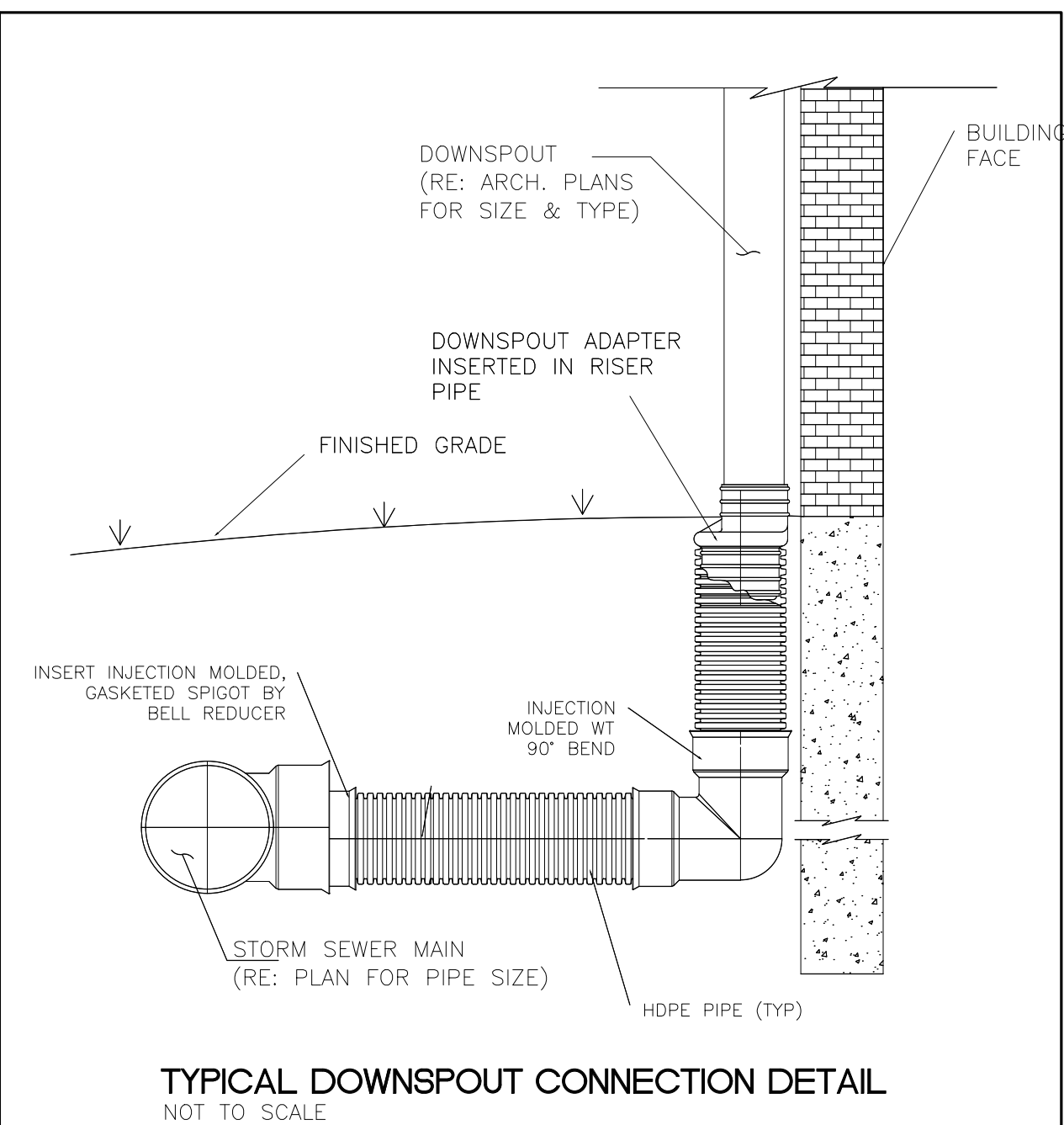
#### 9 CONCRETE SIDEWALK NOT TO SCALE



NOTE:  
PROVIDE EXPANSION JOINTS AT 60' ON CENTER EACH WAY UNLESS NOTED OTHERWISE



NOTE:  
PROVIDE CONTROL JOINTS AT 20' MAXIMUM ON CENTER EACH WAY UNLESS NOTED OTHERWISE



#### TYPICAL DOWNSPOUT CONNECTION DETAIL NOT TO SCALE

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DRAWN:

CHECKED:

DATE : JAN 2018

## NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

ISSUE

06-12-18 I.F.P.



## STANDARD DETAILS

**WA** WADHWA AND ASSOCIATES, INC.  
architects, planners  
and construction administration  
1220 BiLock #230 Ph: (713) 465-0009  
Houston, Texas 77055 Fax: (713) 465-2391

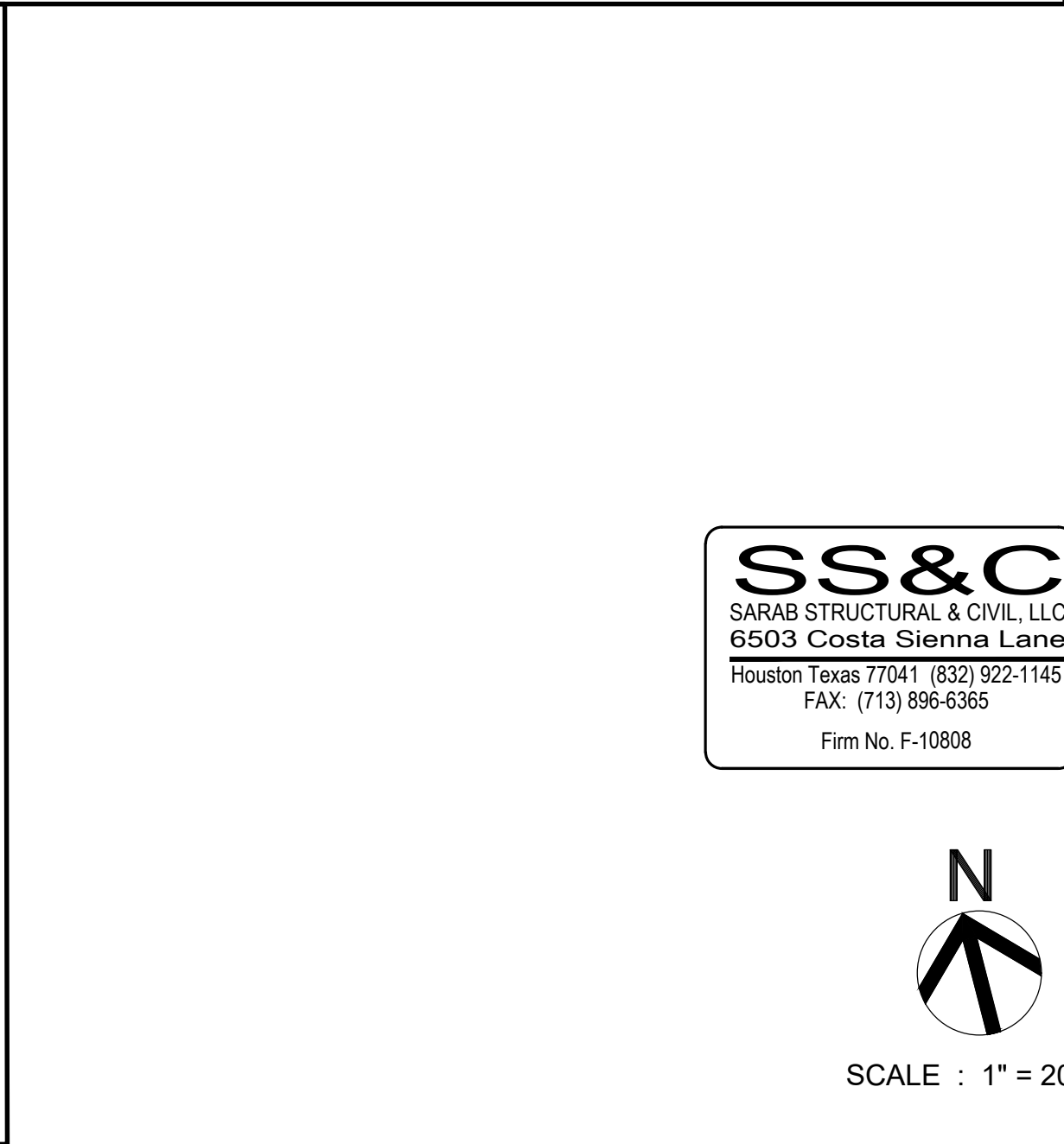
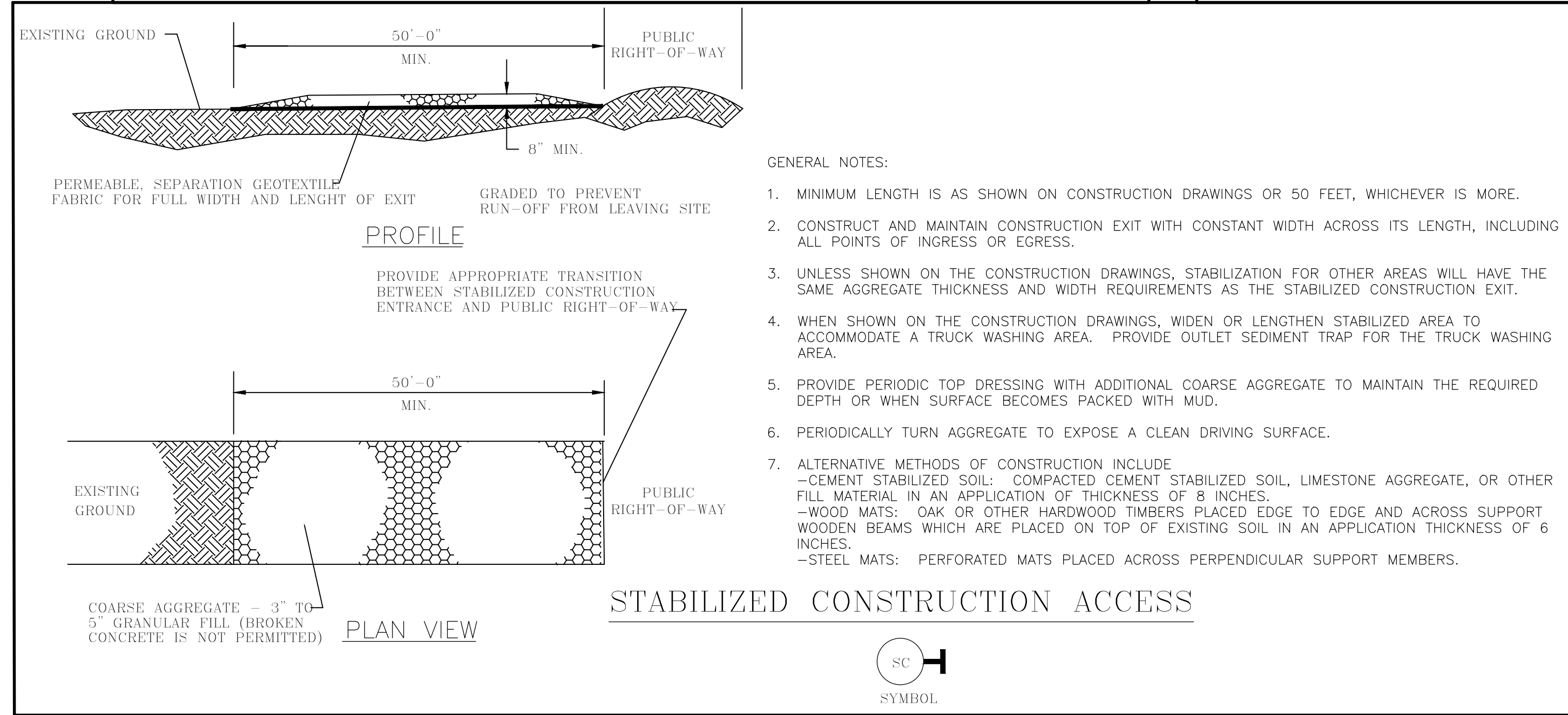
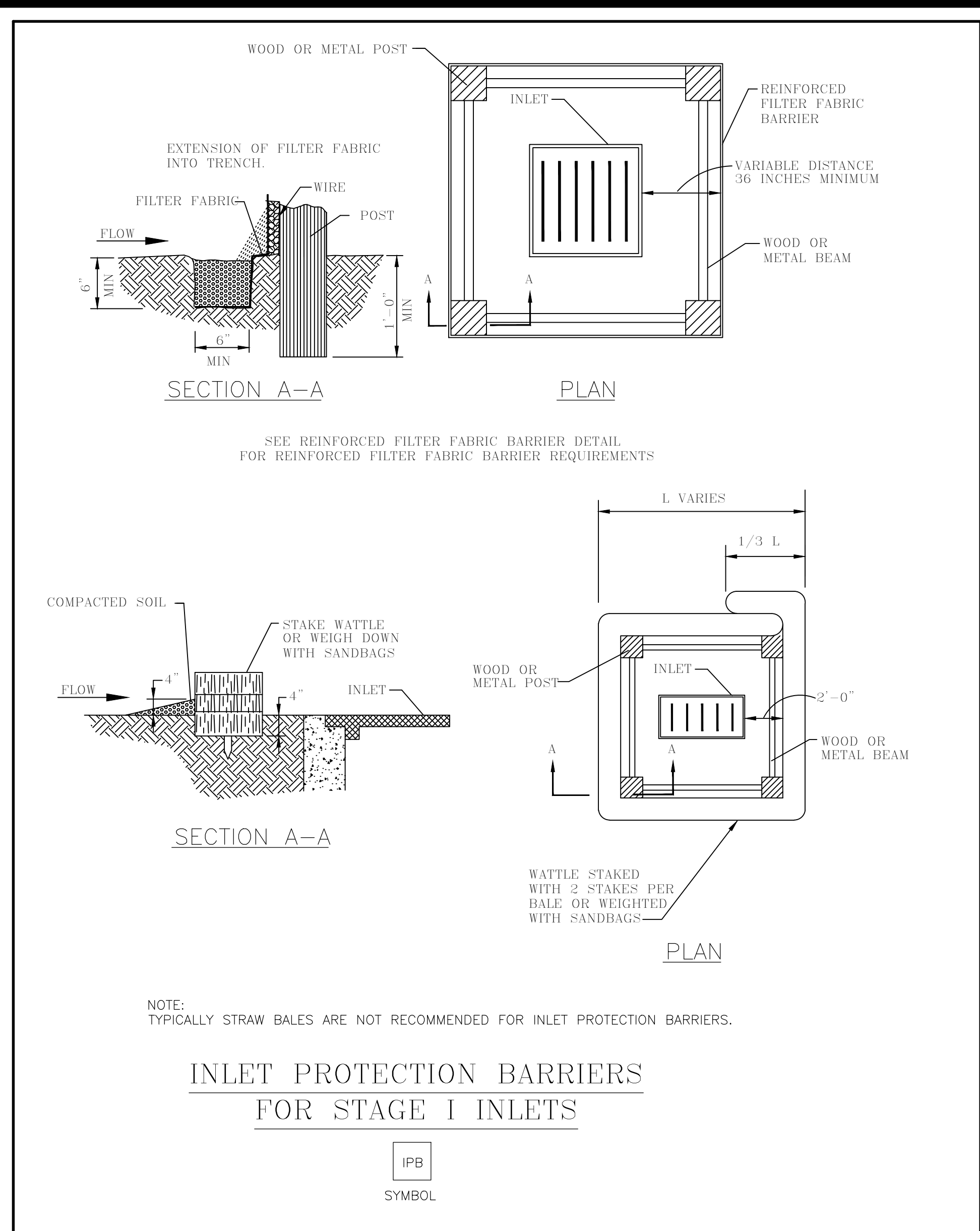
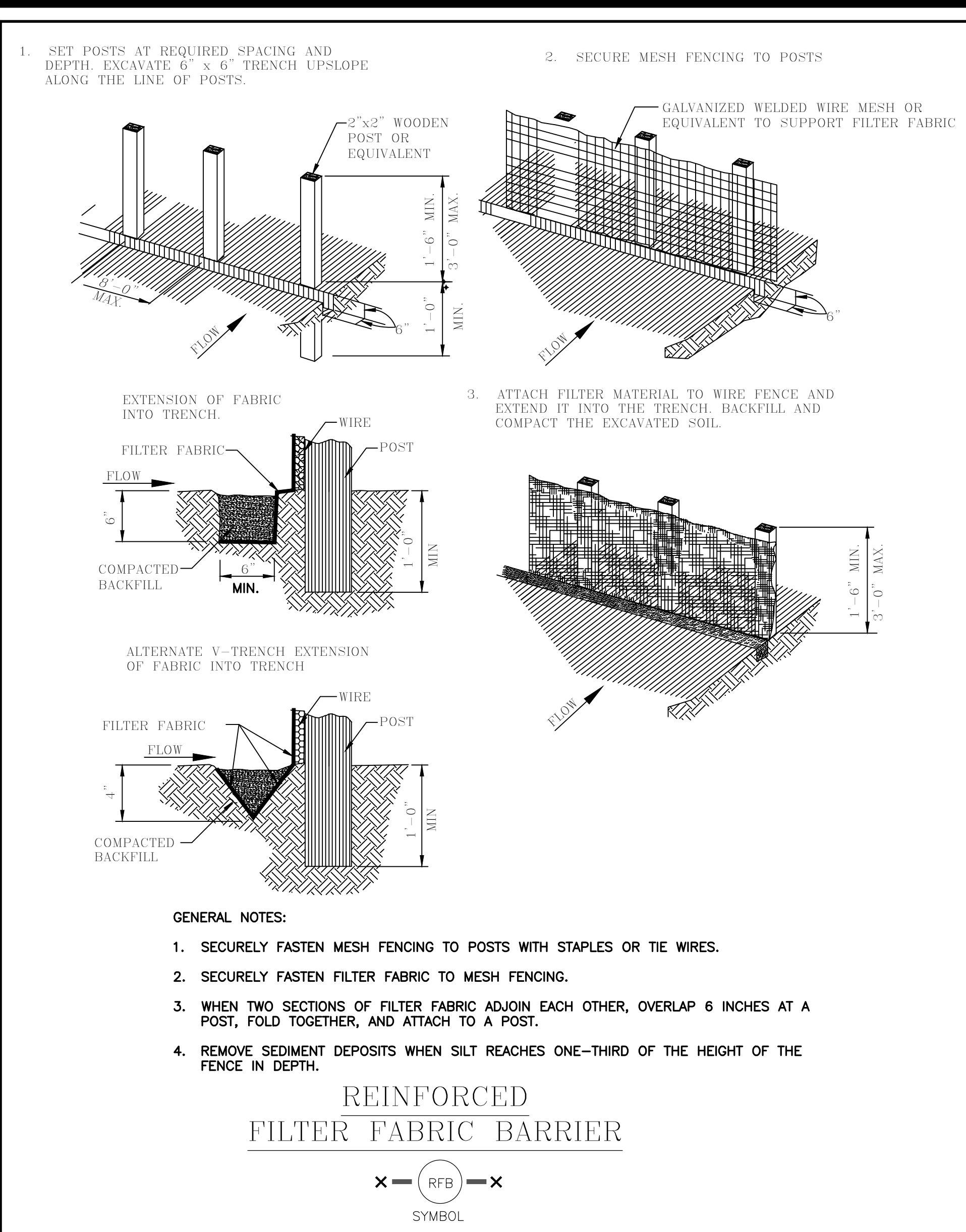
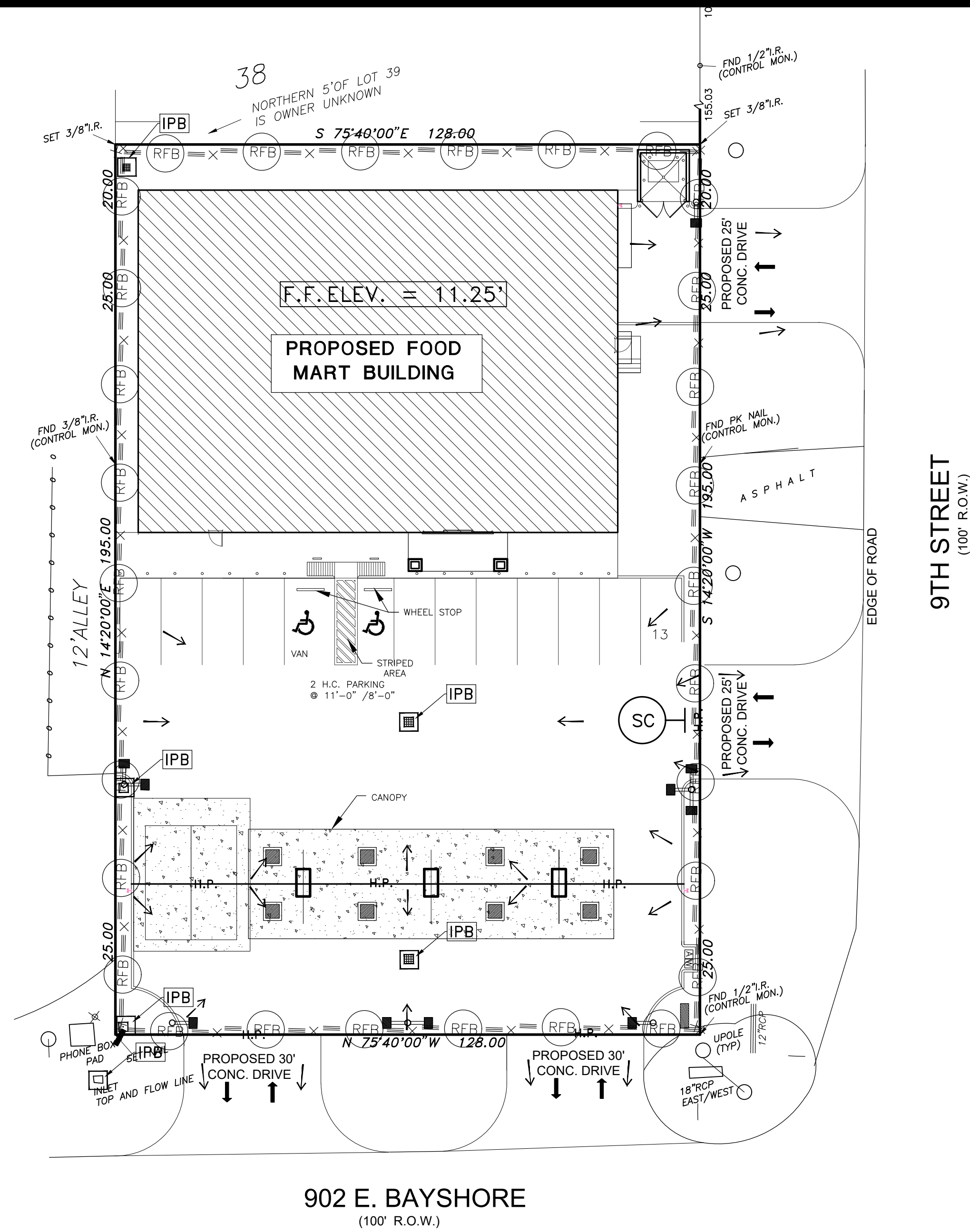
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1	18-02-003
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FOOD MART - BAYSHORE





# STORM WATER POLLUTION PREVENTION PLAN (SW3P)

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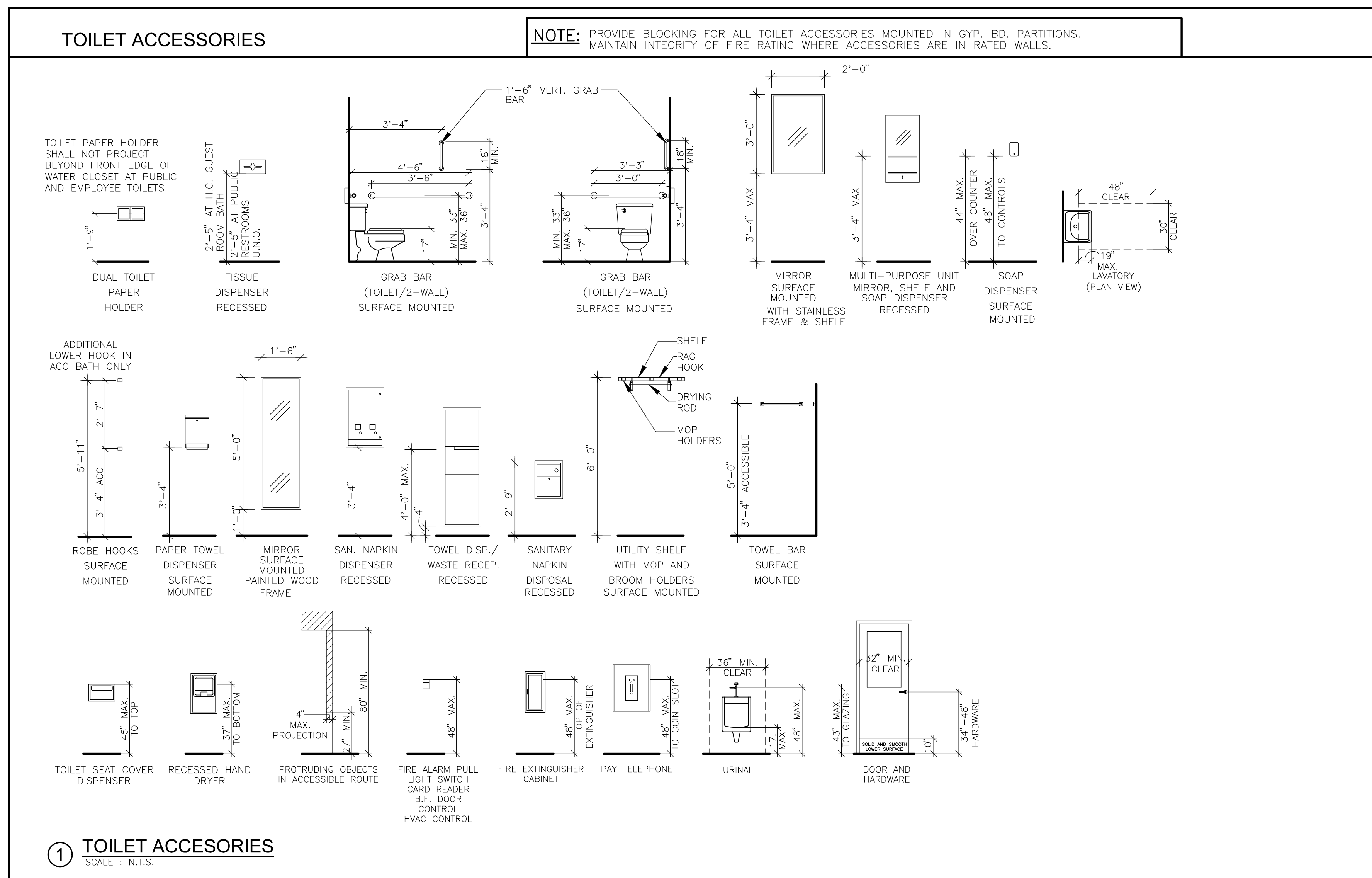
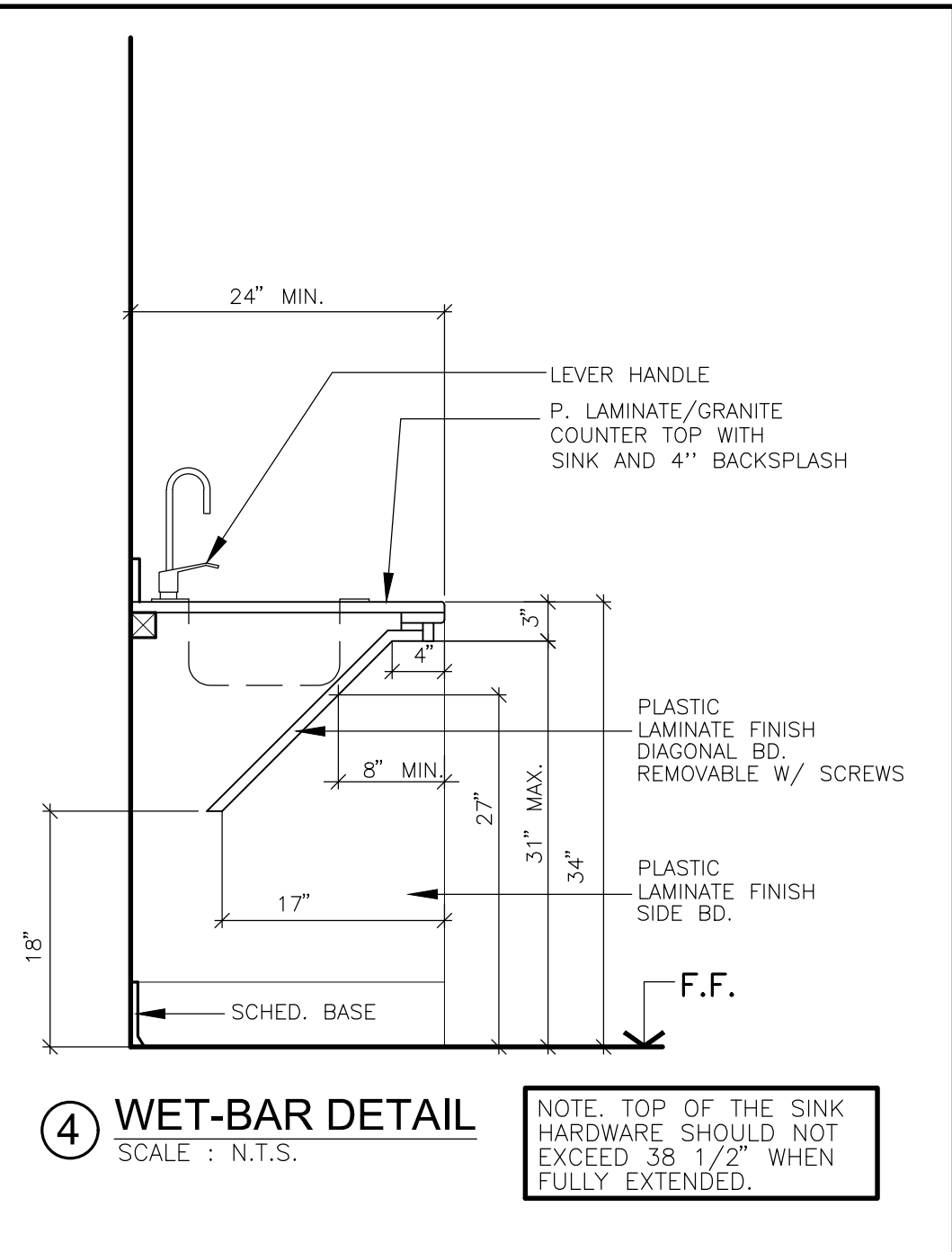
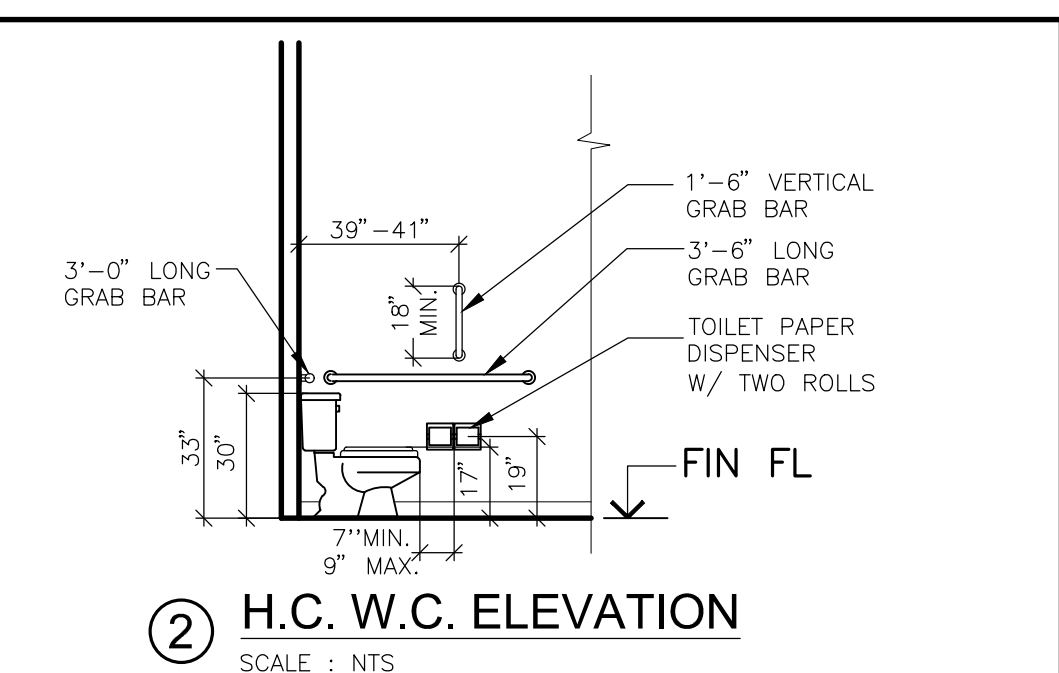
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04933  
Date: 06-13-18

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architects, planners  
and construction administration  
1220 Biolock #230 Ph: (713) 465-0009  
Houston, Texas 77055 Fax: (713) 465-2391

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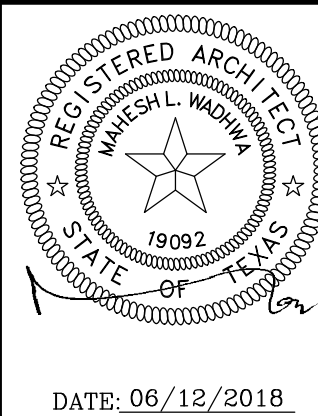
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DATE : JAN 2018

NEW LAWRENCE GROCERY

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SAN LEON, TEXAS 77539

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architects, planners  
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Houston, Texas 77055 Fax: (713) 465-2391

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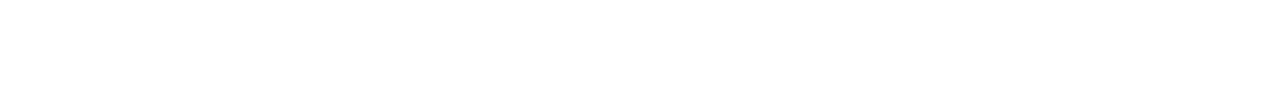
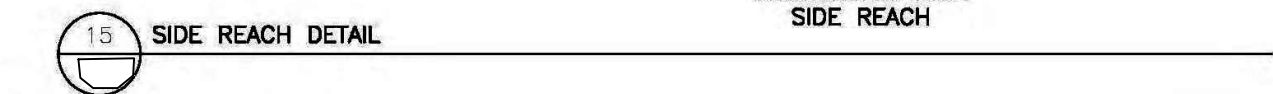
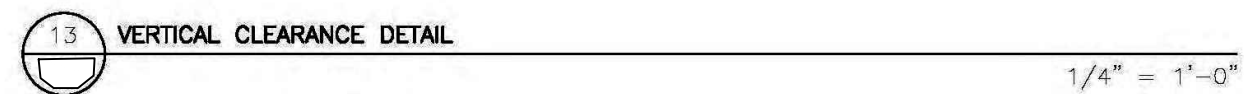
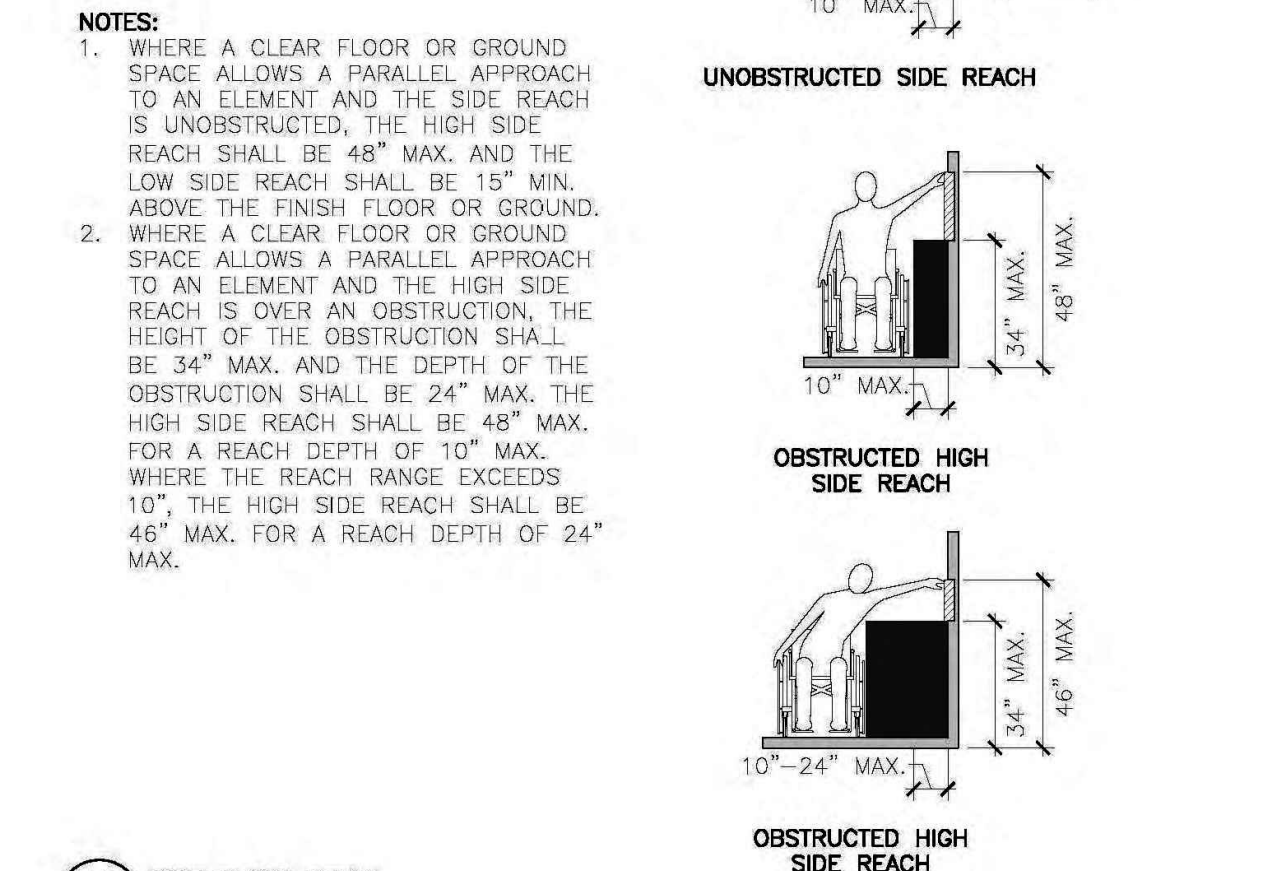
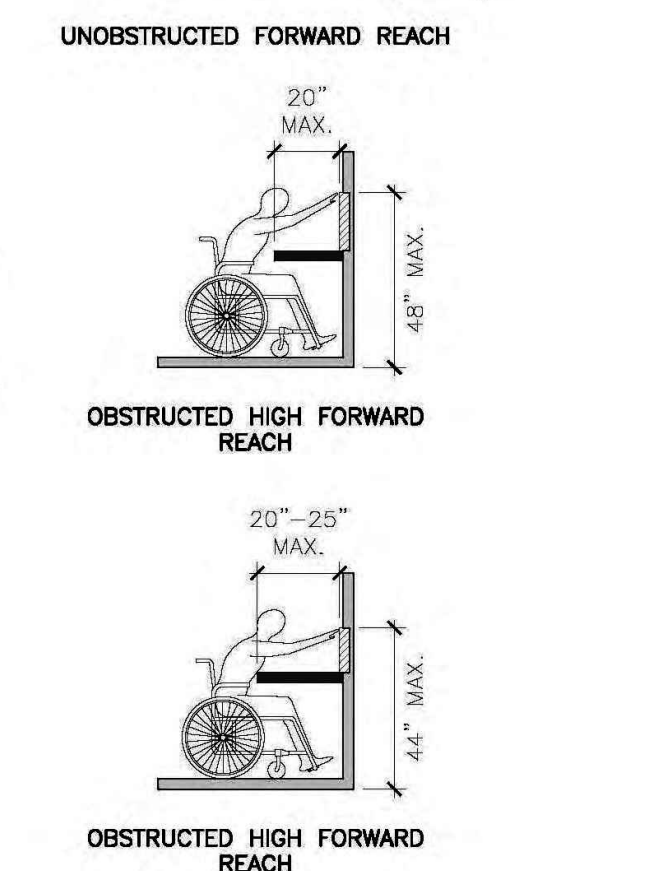
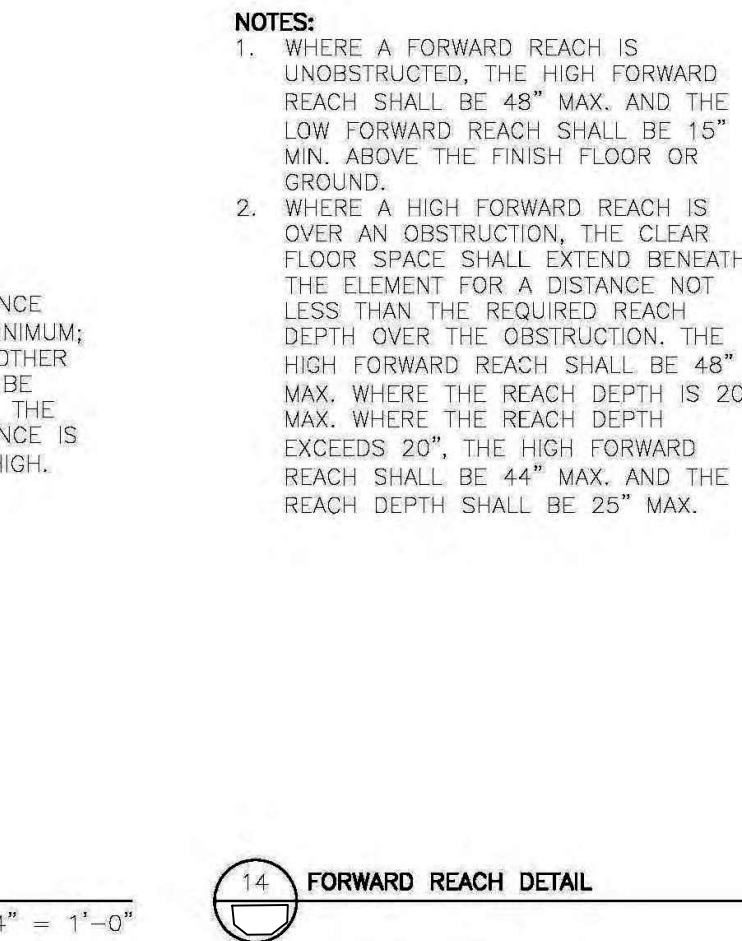
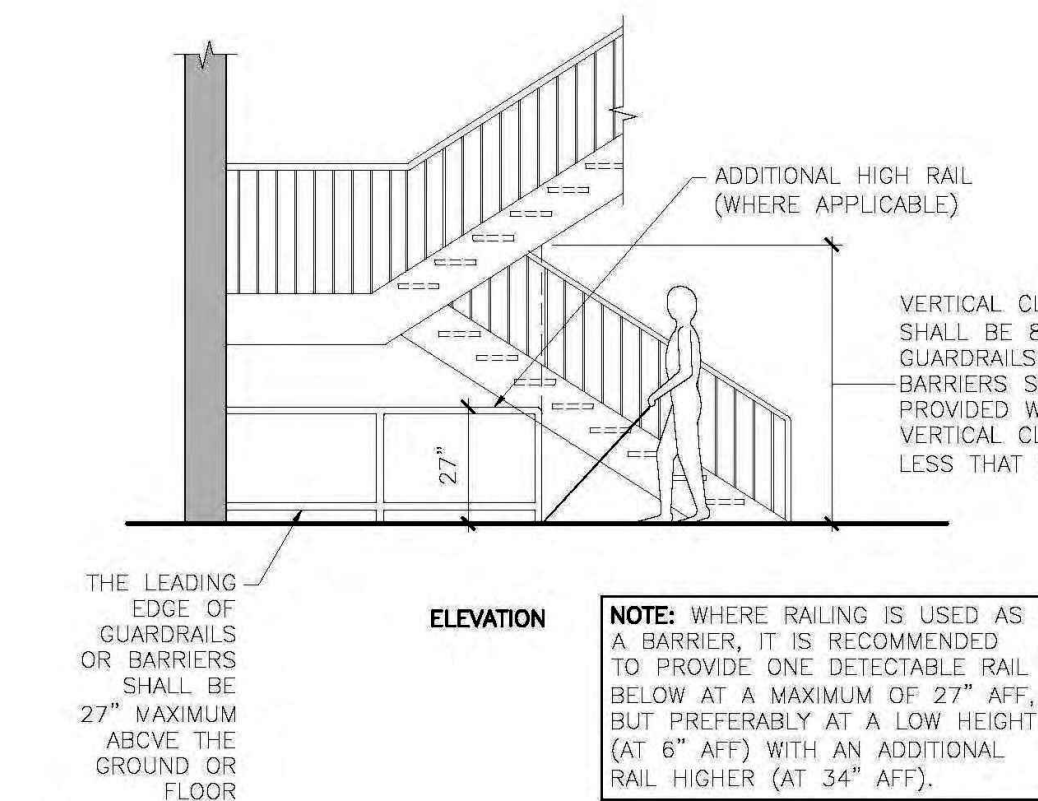
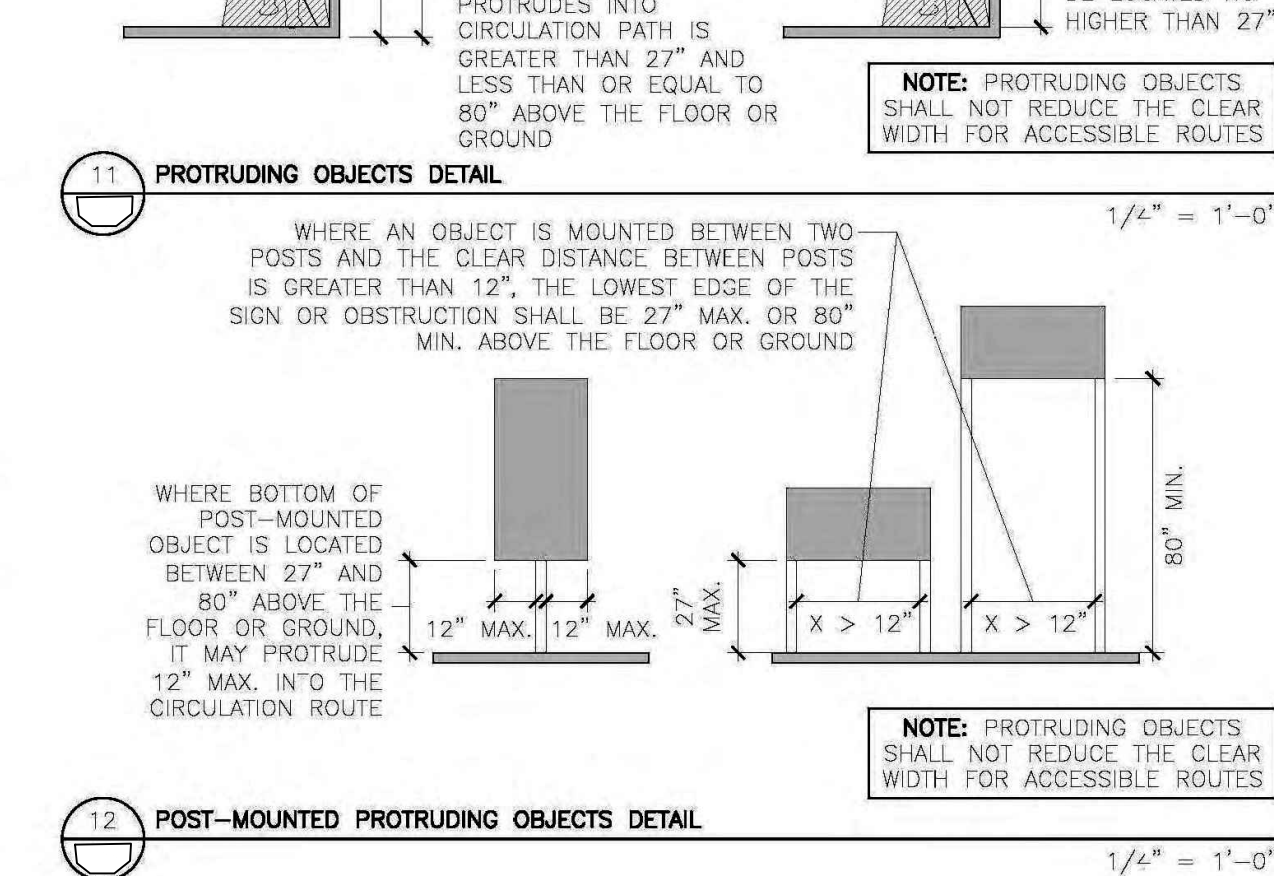
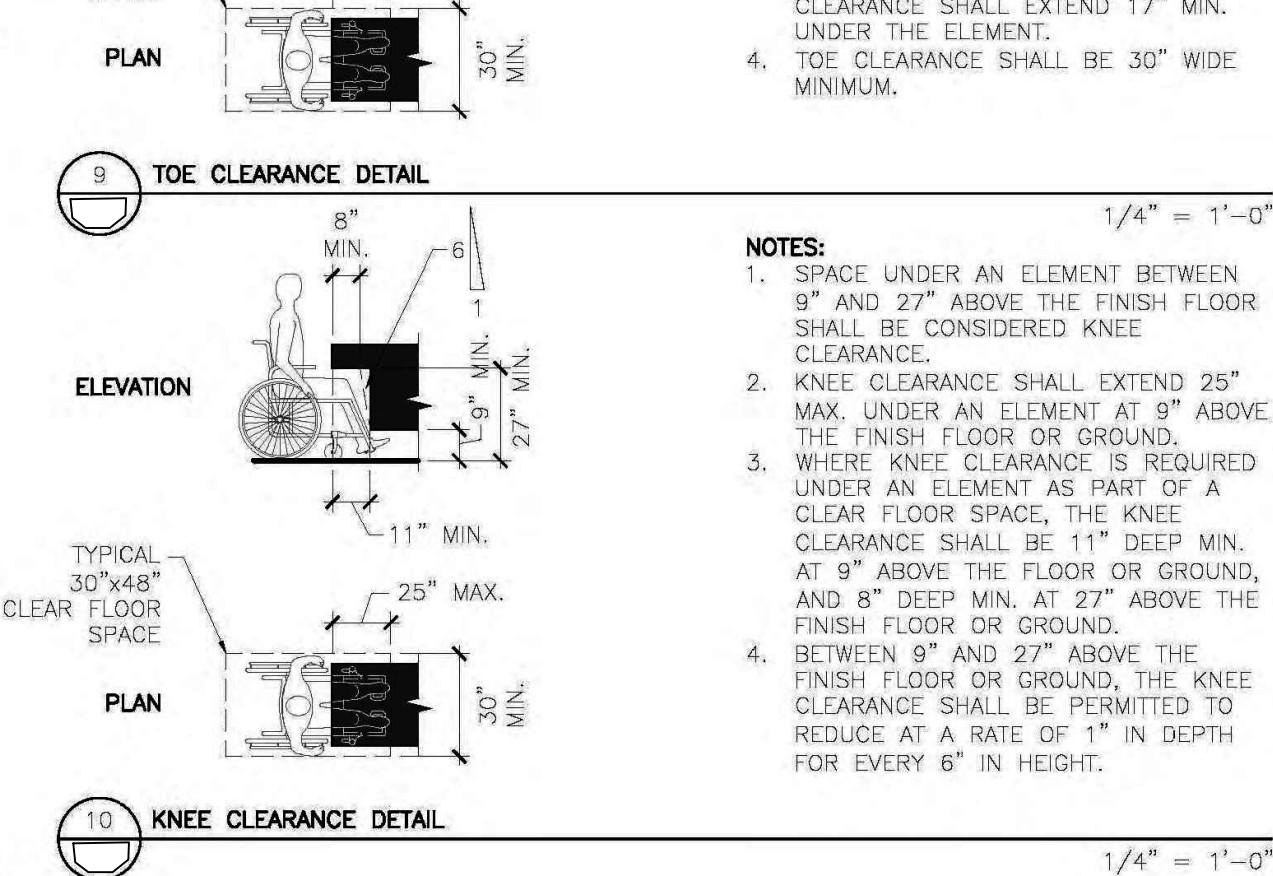
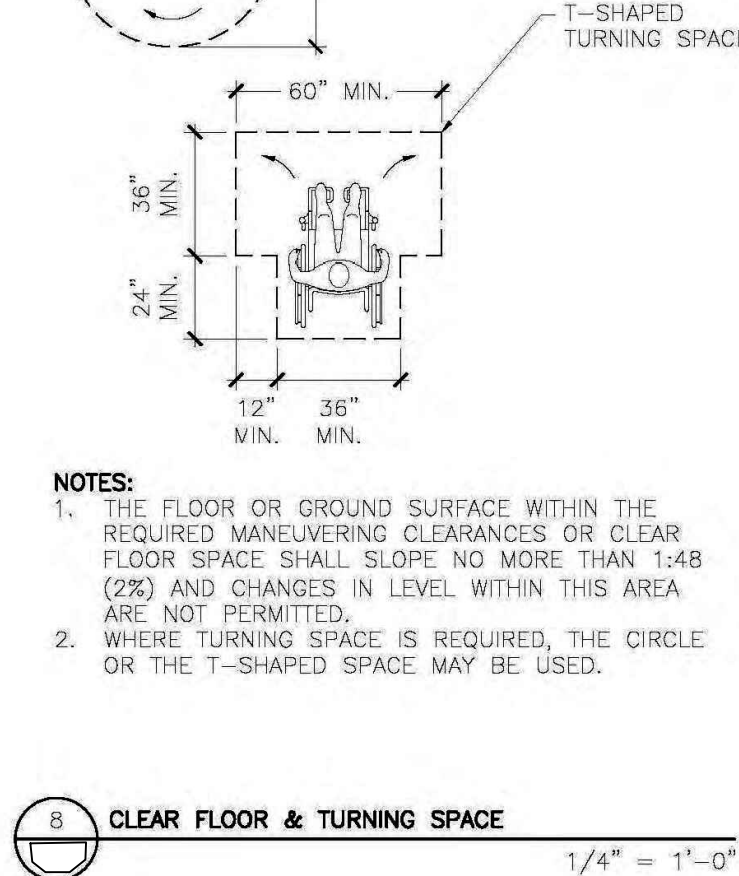
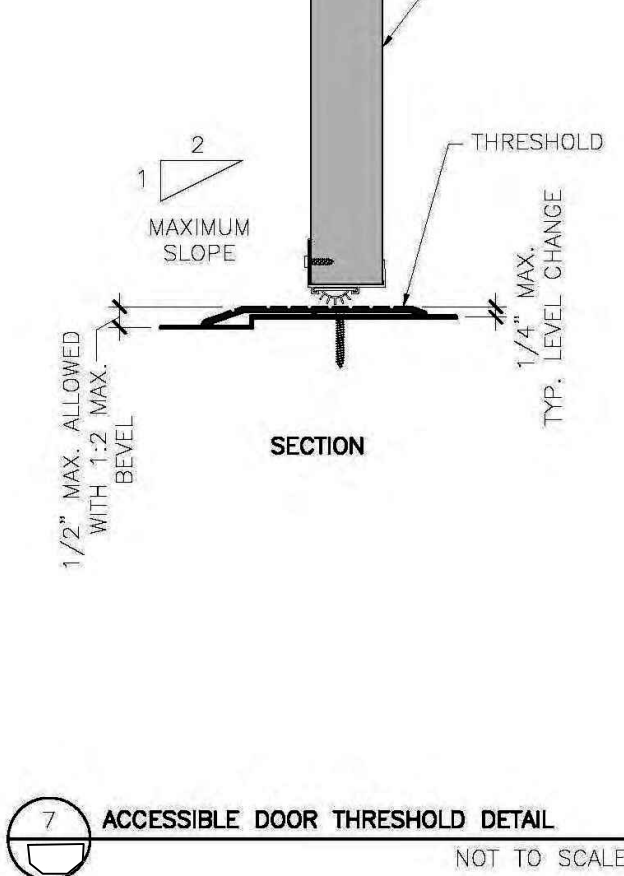
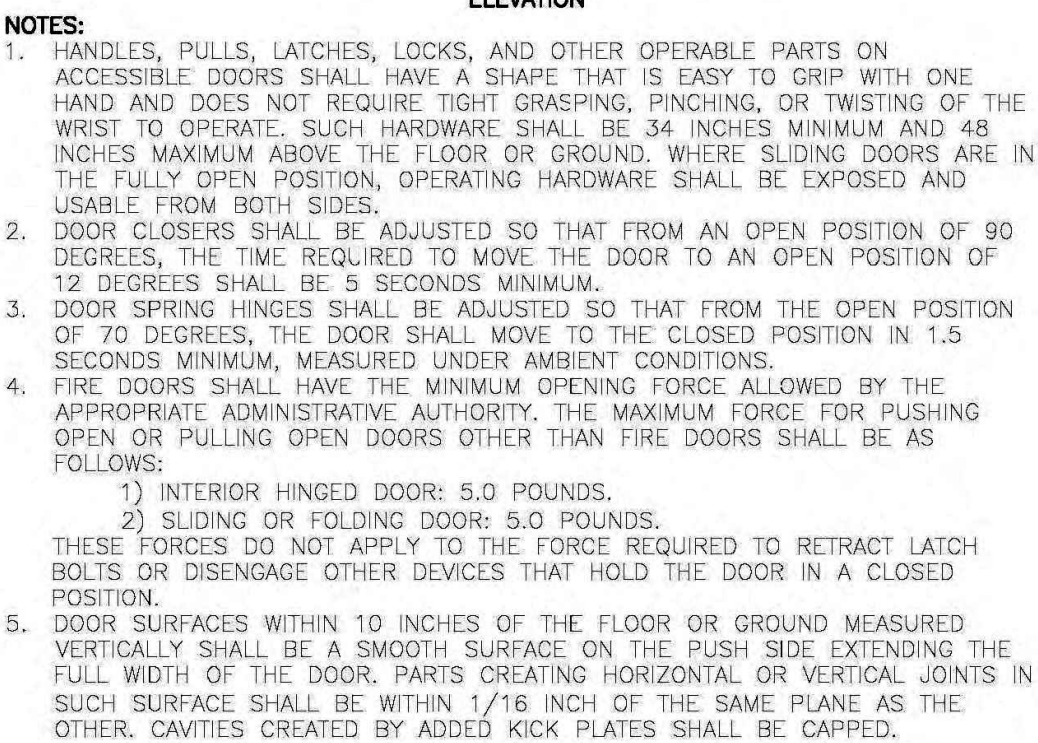
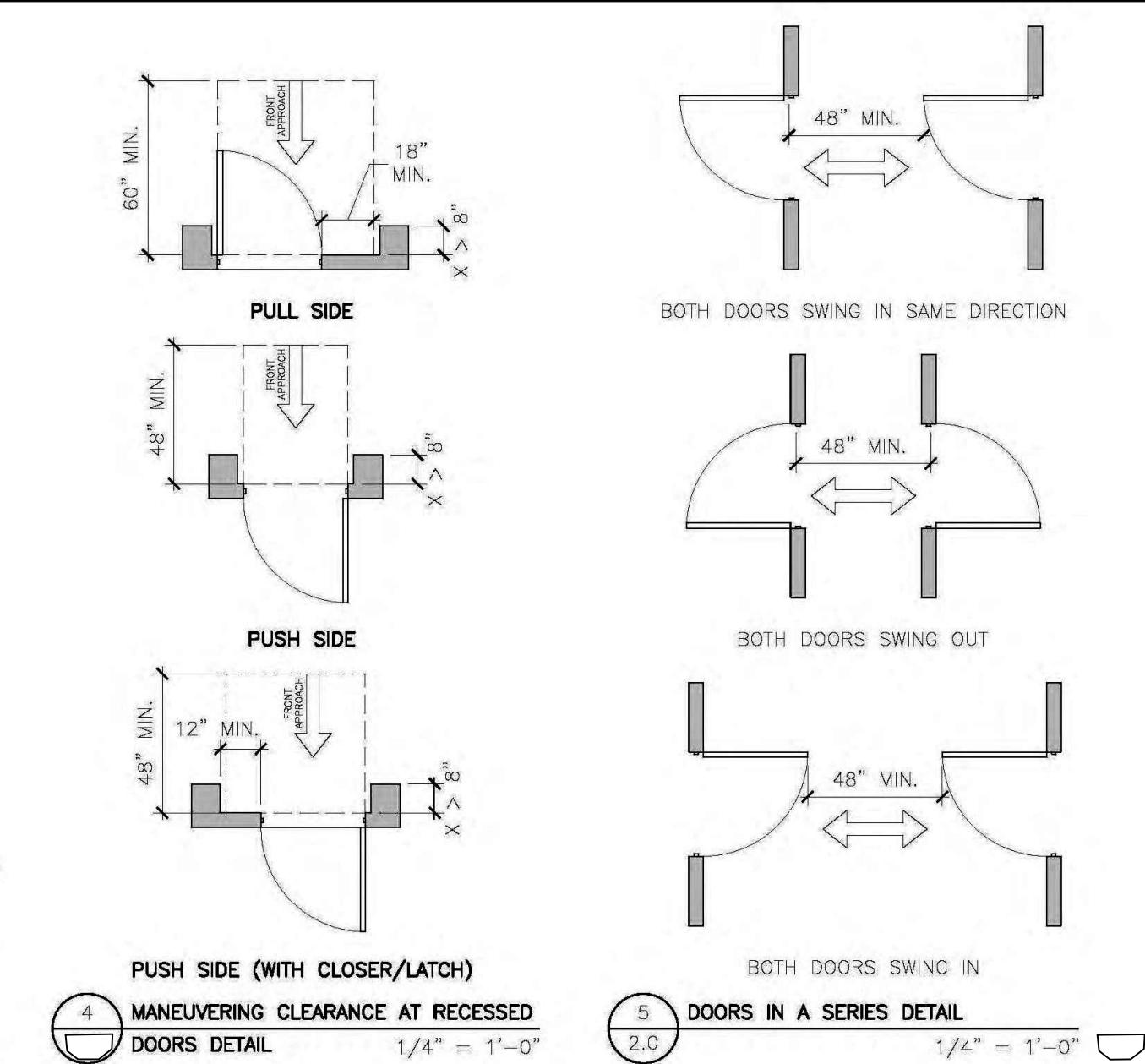
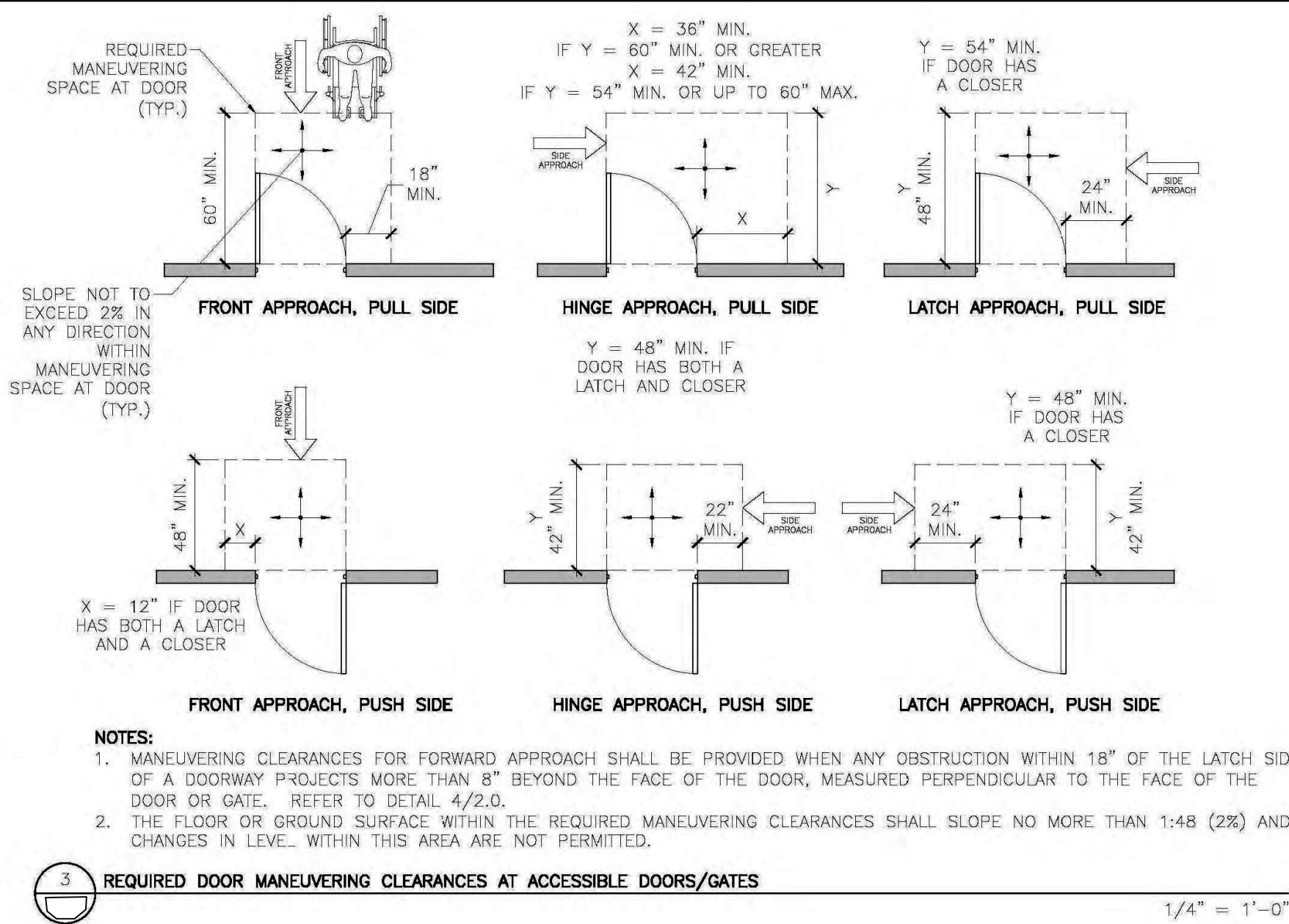
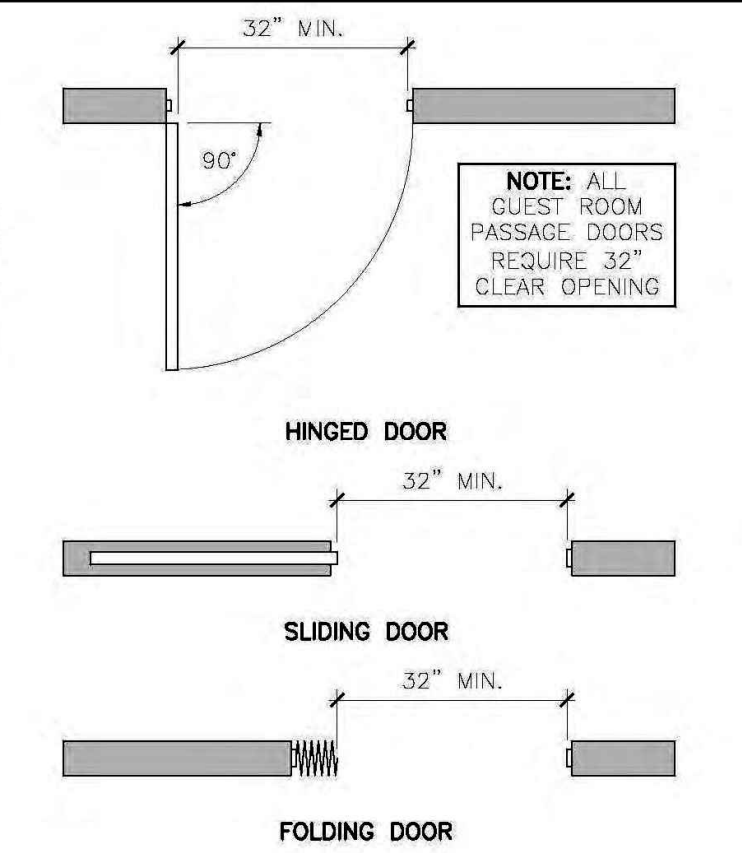
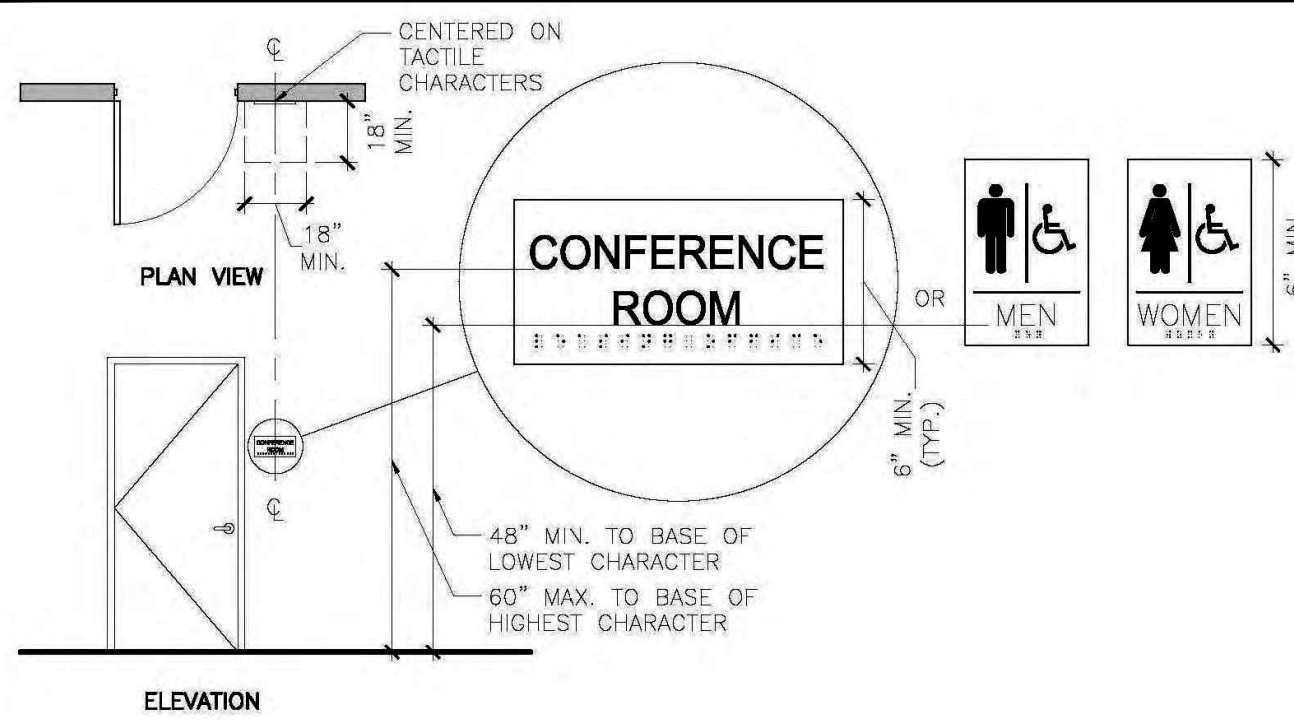
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FOOD MART , BAYSHORE



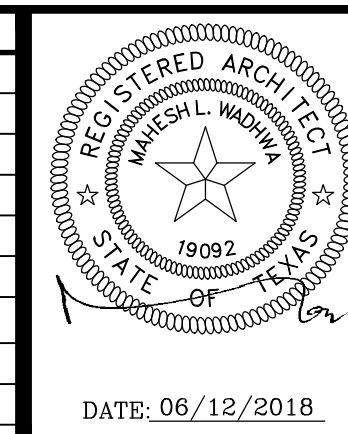


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CHECKED:  
DATE : JAN 2018

**NEW LAWRENCE GROCERY**  
902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

ISSUE  
06-12-18 I.F.P.



**GENERAL ACCESSIBILITY DETAILS**  
**WADHWA AND ASSOCIATES, INC.**  
architects, planners  
and construction administration  
1220 Biolock #230 Ph: (713) 465-0009  
Houston, Texas 77055 Fax: (713) 465-2391

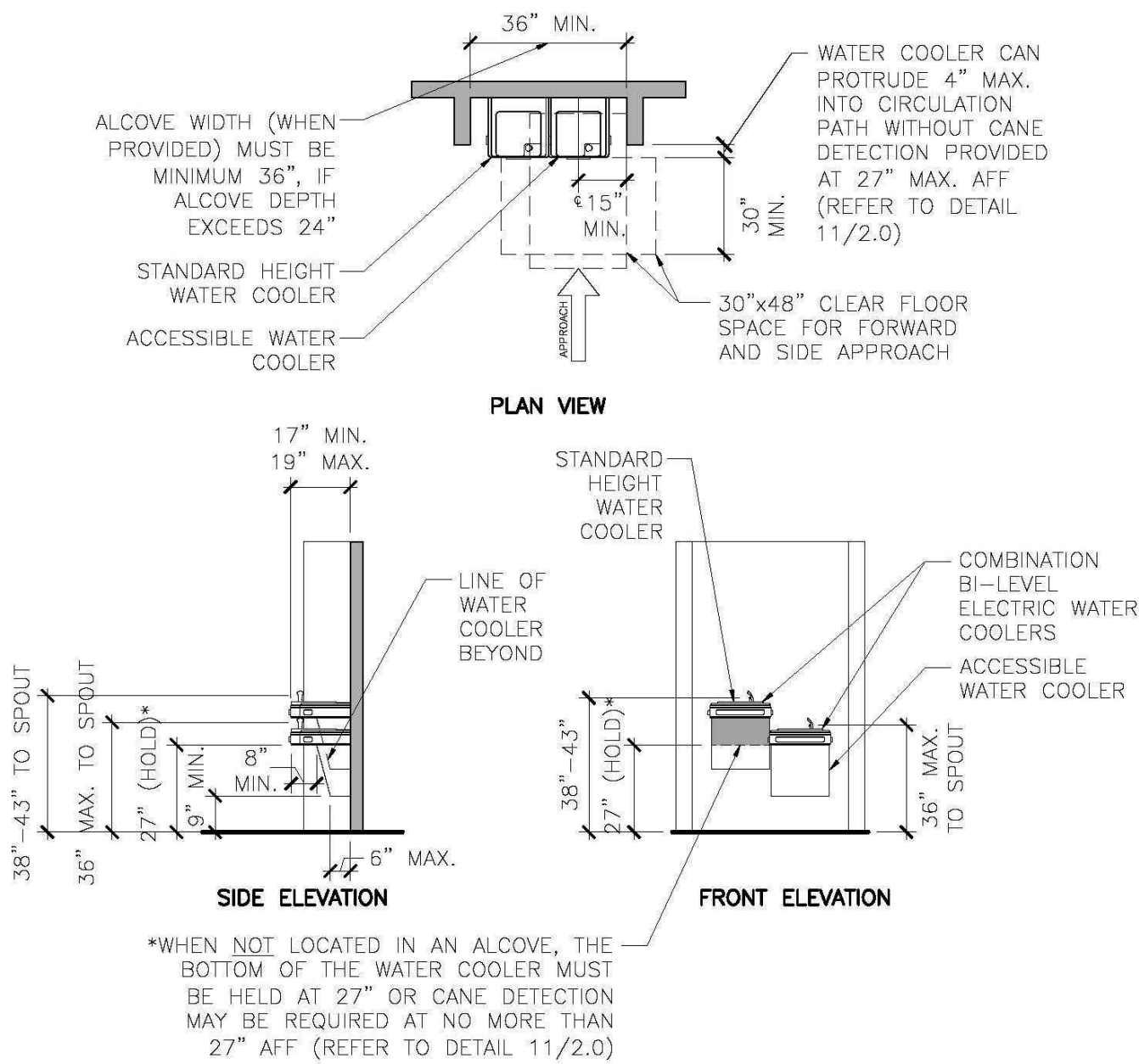
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18-02-003  
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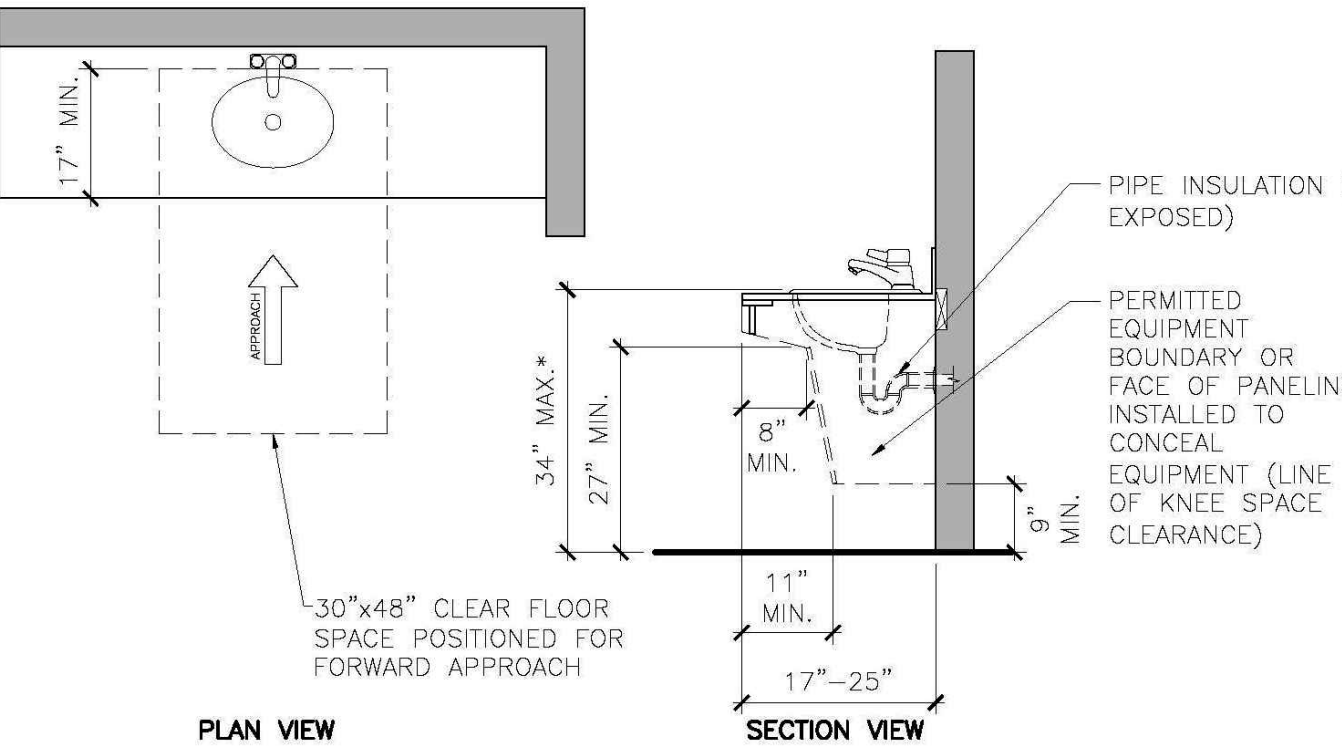
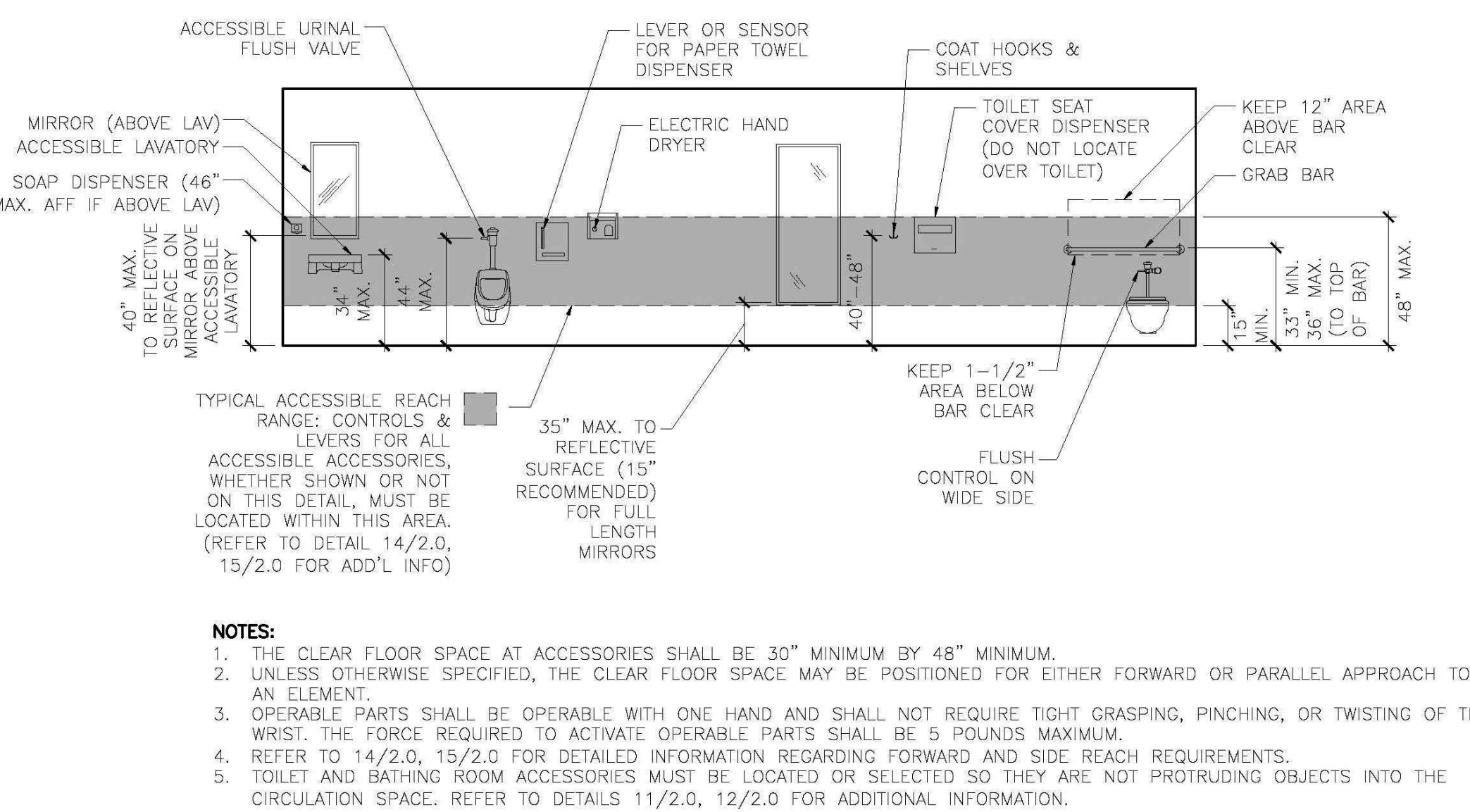
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FOOD MART - BAYSHORE





- NOTES:**
1. THE CLEAR FLOOR SPACE REQUIRED FOR FORWARD APPROACH SHALL BE CENTERED ON THE UNIT AND SHALL INCLUDE KNEE AND TOE CLEARANCE (REFER TO DETAILS 9/2.0, 10/2.0).
  2. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.
  3. THE SPOUT SHALL BE LOCATED 15" MAXIMUM FROM THE VERTICAL SUPPORT AND 5" MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS.
  4. THE SPOUT SHALL PROVIDE A FLOW OF WATER 4" HIGH MINIMUM AND SHALL BE LOCATED 5" MAXIMUM FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT, WHERE SPOUTS ARE LOCATED LESS THAN 3" FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER SHALL BE 30" MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3" AND 5" MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15" MAXIMUM.

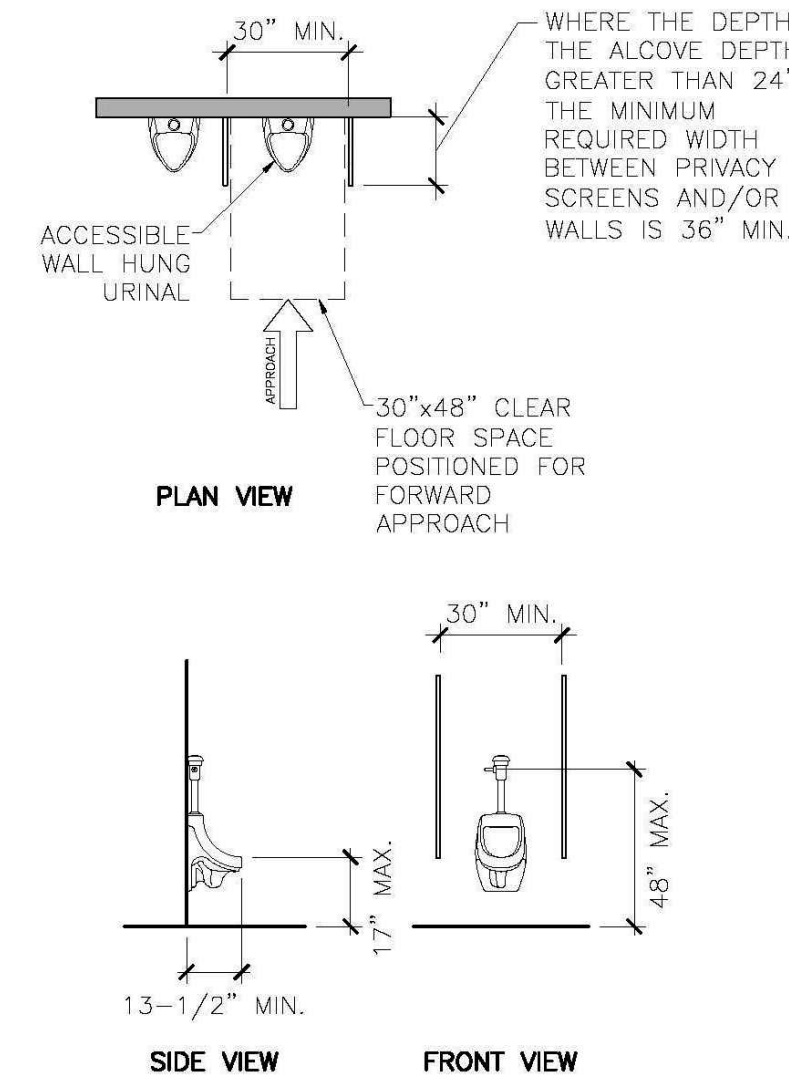
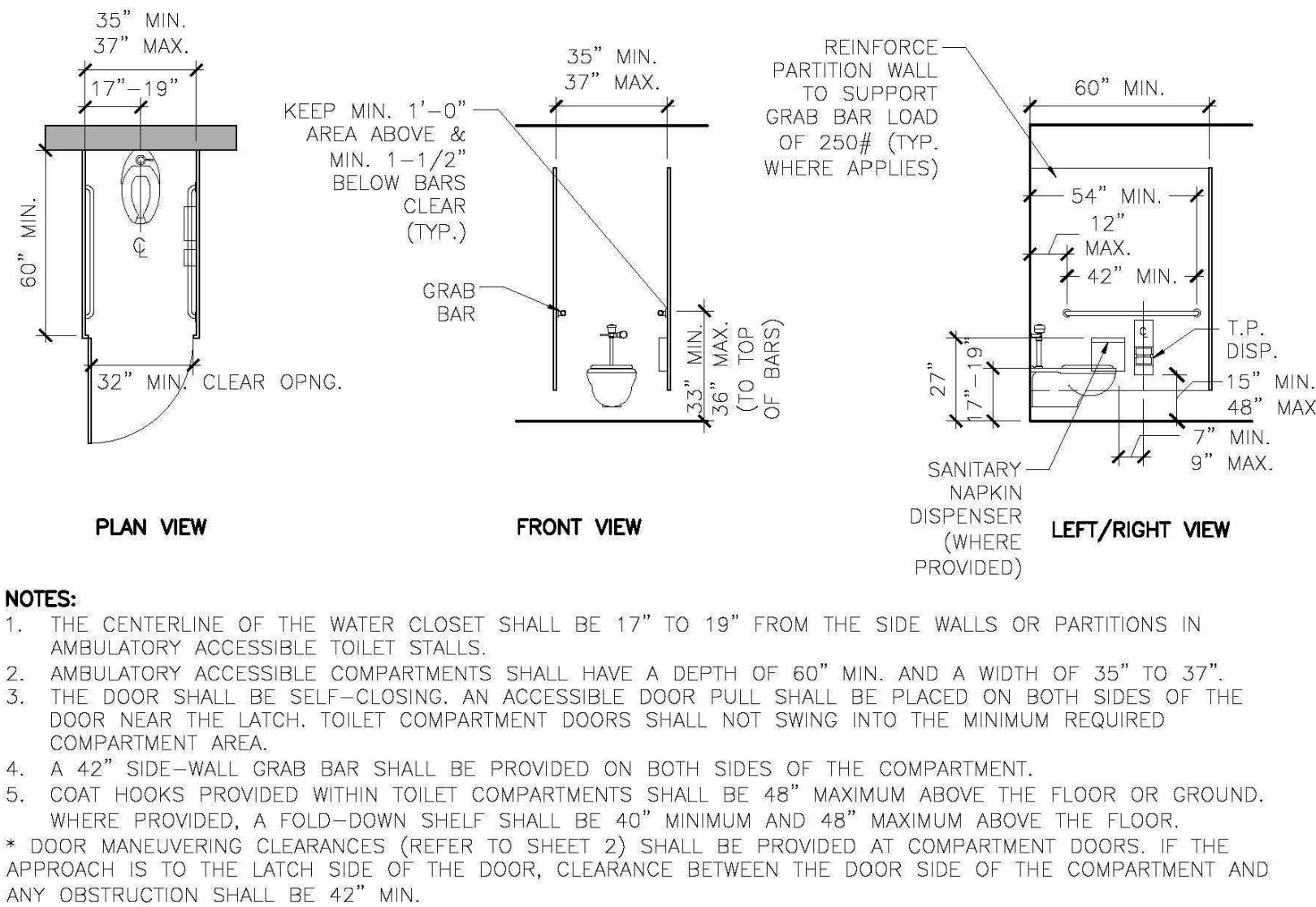
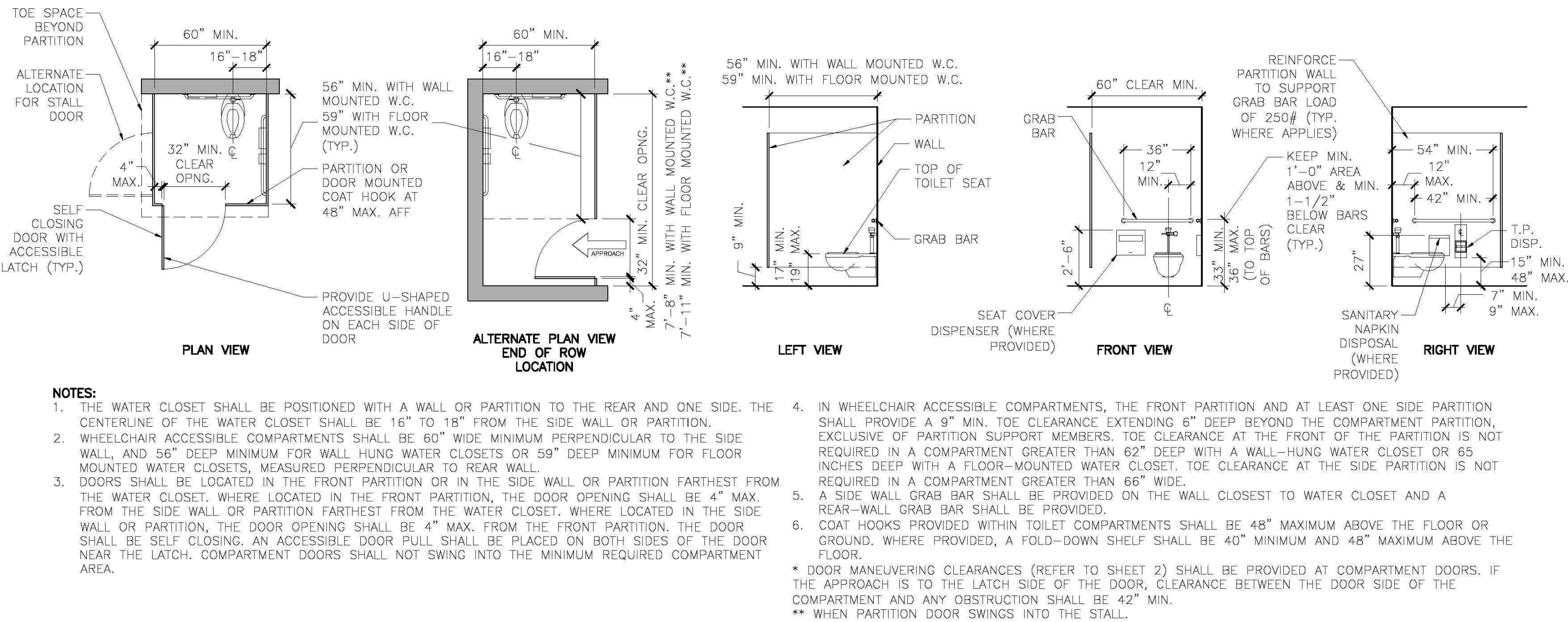


- NOTES:**
1. A CLEAR FLOOR SPACE, POSITIONED FOR FORWARD APPROACH, AND KNEE AND TOE CLEARANCE SHALL BE PROVIDED (REFER TO DETAILS 9/2.0, 10/2.0).
  2. THE FRONT OF SINKS SHALL BE 34" MAXIMUM ABOVE THE FLOOR, MEASURED TO THE FIXTURE RIM OR COUNTER SURFACE, WHICHEVER IS HIGHER.
  3. HAND-OPERATED, SELF-CLOSING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.
  4. WATER SUPPLY AND DRAIN PIPES UNDER SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINKS.
  5. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.

1 DRINKING FOUNTAIN & ALCOVE DETAIL

2 TOILET & BATHING ROOM ACCESSIBLE ACCESSORY MOUNTING HEIGHTS

3 ACCESSIBLE SINK AND COUNTERTOP DETAIL



5 AMBULATORY ACCESSIBLE TOILET STALL & WATER CLOSET DETAIL

6 ACCESSIBLE URINAL DETAIL

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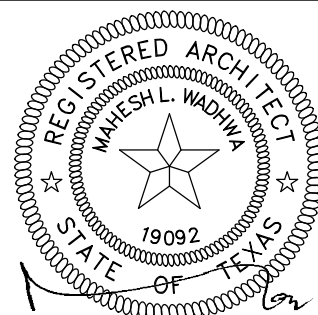
DATE : JAN 2018

NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

ISSUE

06-12-18 I.F.P.



DATE: 06/12/2018

ACCESSIBLE PLUMBING DETAILS

**WA** WADHWA AND ASSOCIATES, INC.  
architects, planners  
and construction administration

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Houston, Texas 77055 Fax: (713) 465-2391

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JOB NO.

18-02-003

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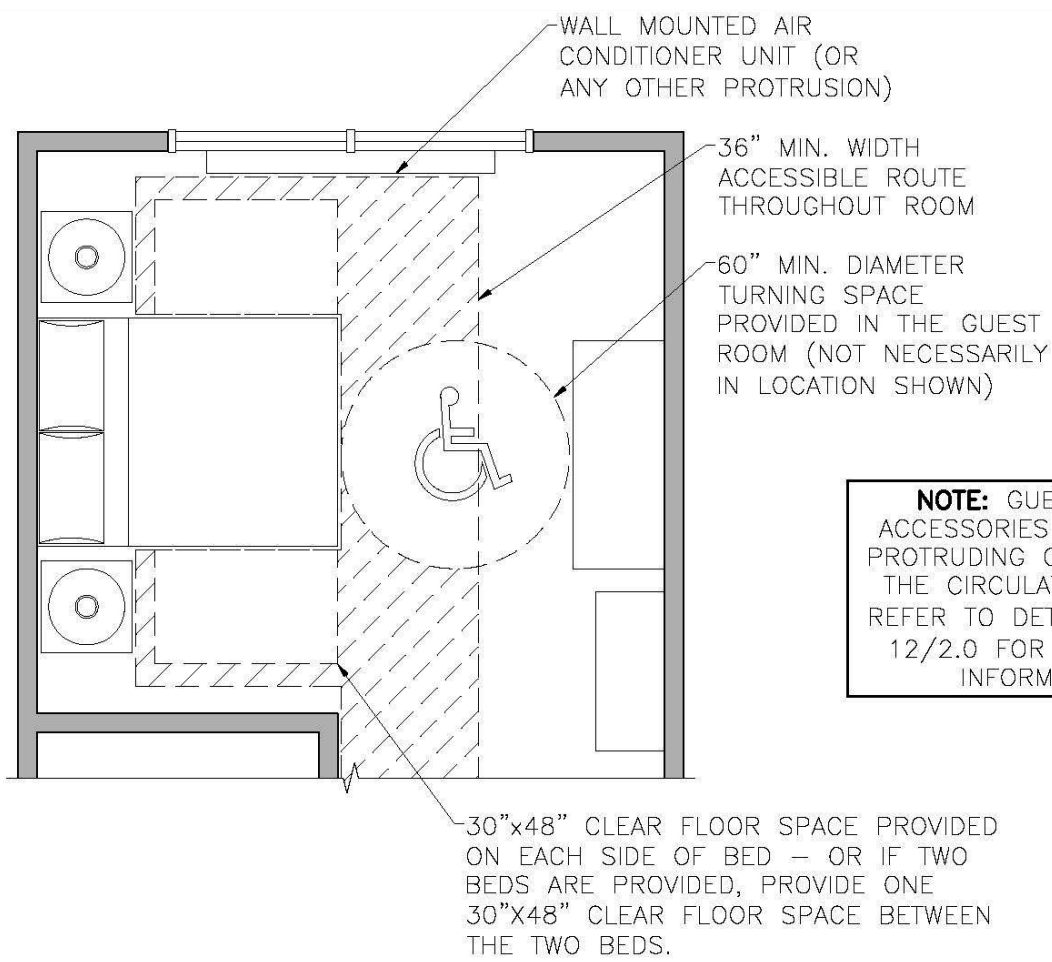
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FOOD MART - BAYSHORE

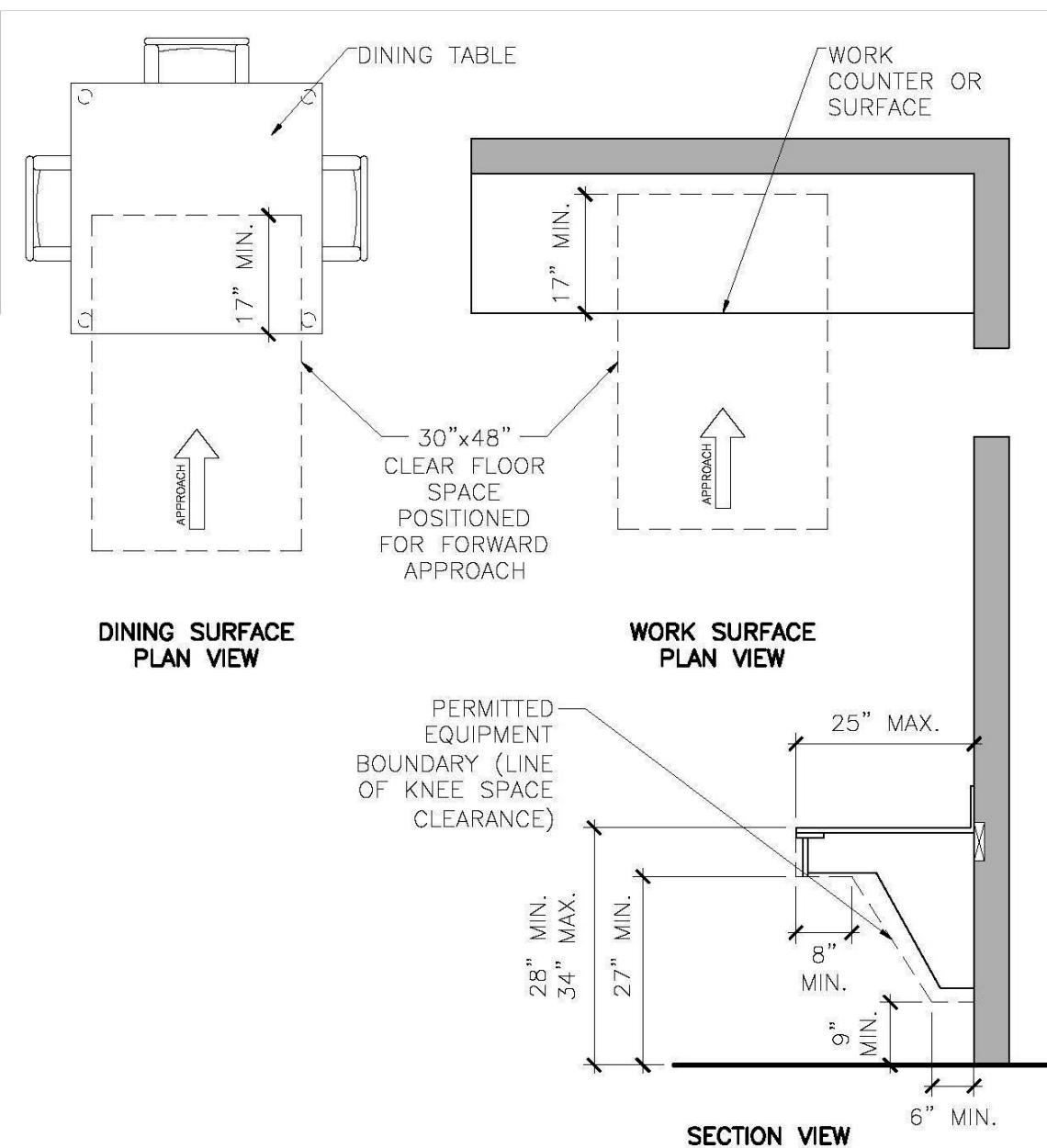


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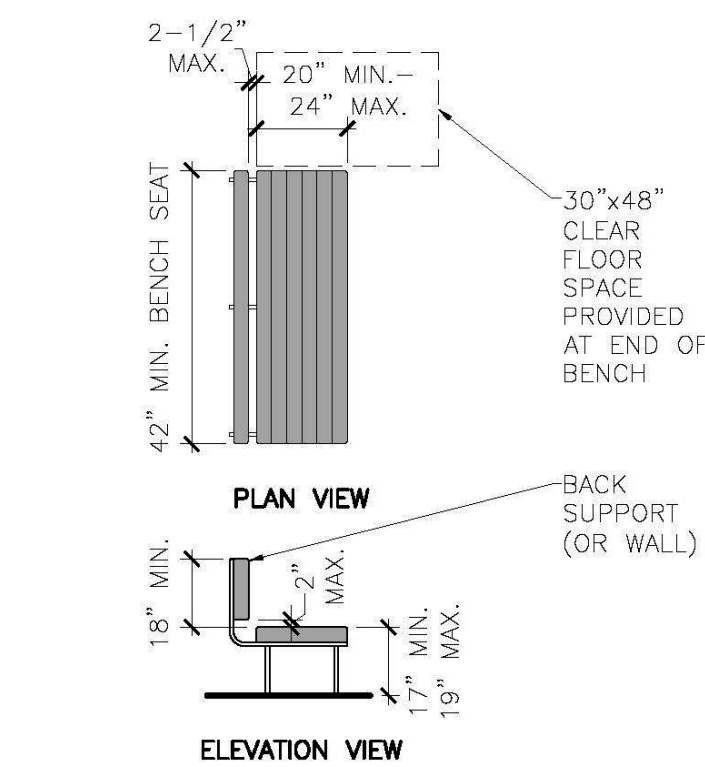


4 GUEST ROOM WITH MOBILITY FEATURES DETAIL  
1/4" = 1'-0"



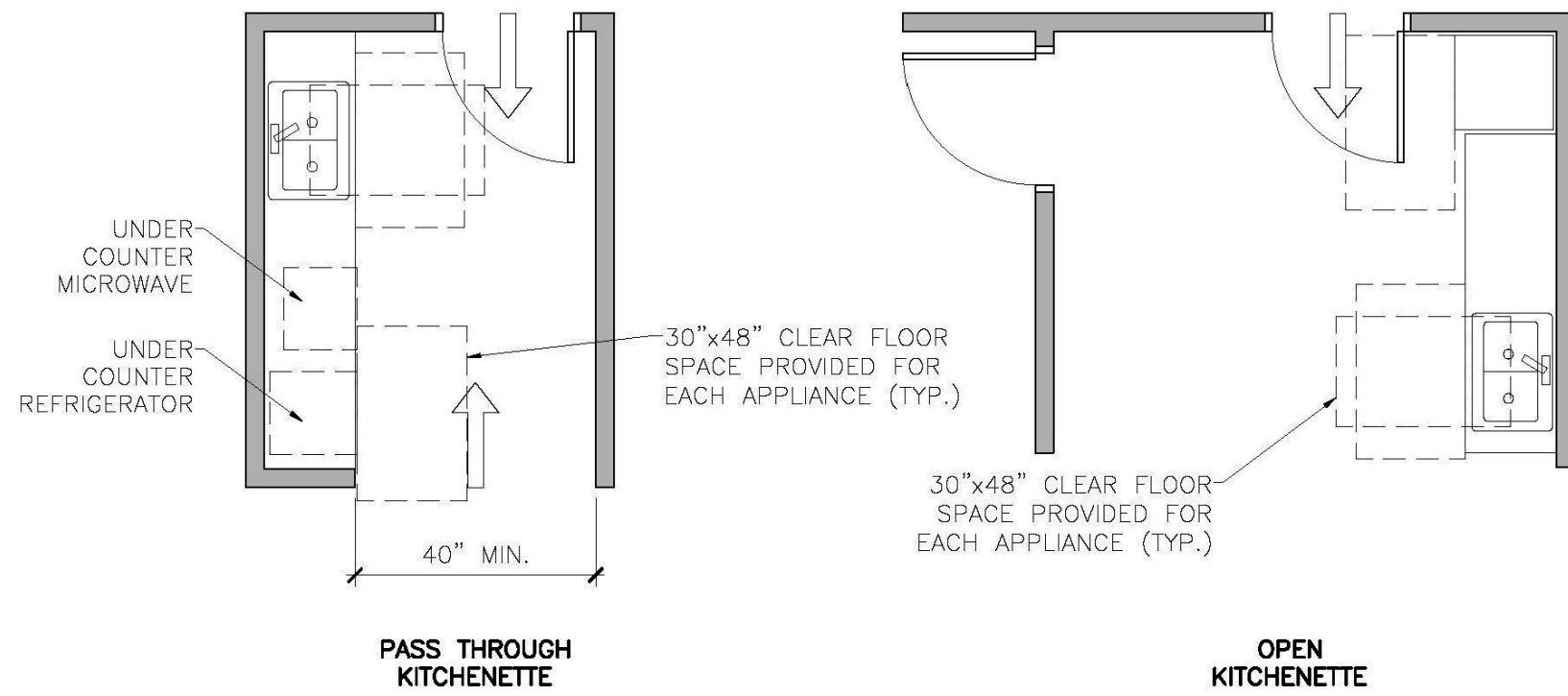
5 ACCESSIBLE DINING & WORK SURFACES DETAIL  
1/2" = 1'-0"

3 GUEST ROOM WITH MOBILITY FEATURES KITCHEN DETAILS  
4.0



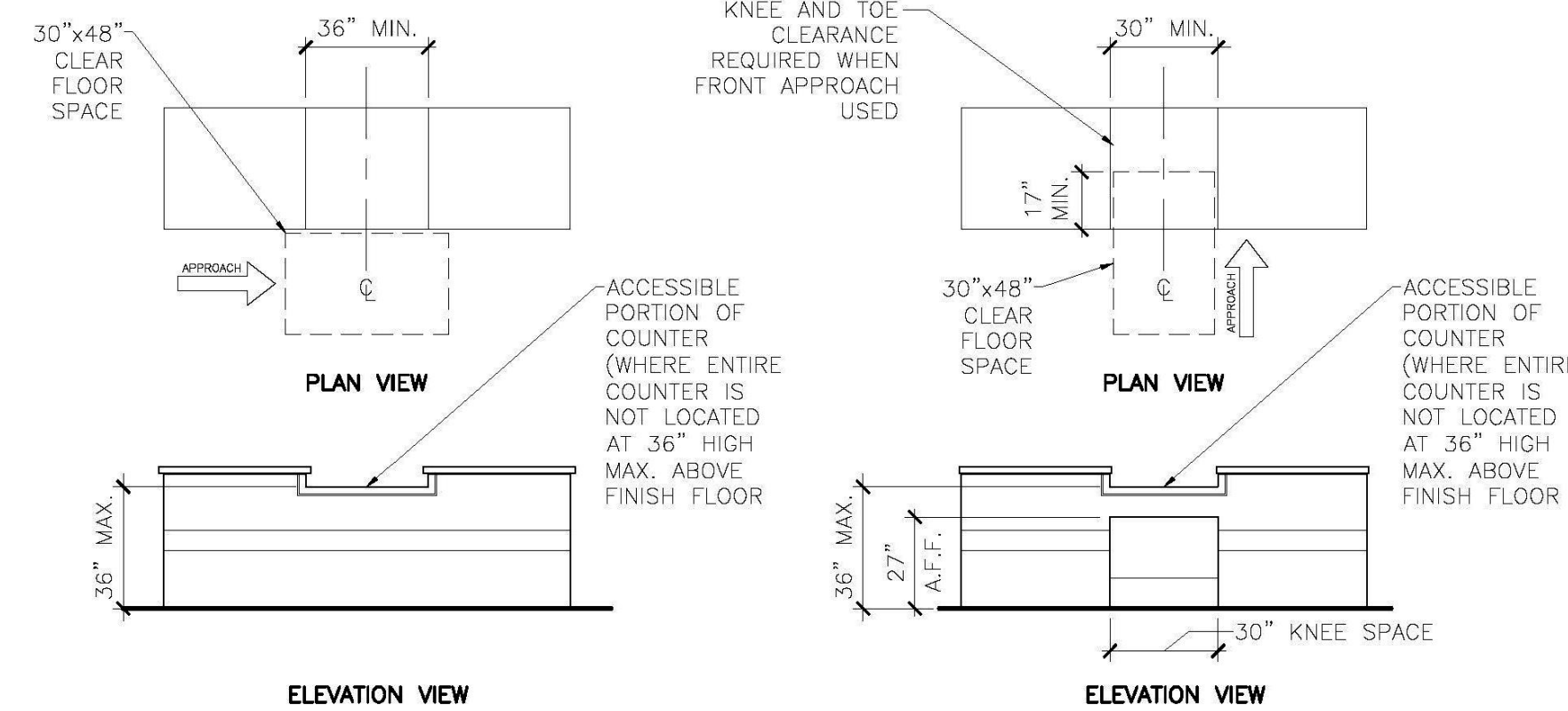
- NOTES:**
1. CLEAR GROUND OR FLOOR SPACE SHALL BE PROVIDED AND POSITIONED AT THE END OF THE BENCH SEAT AND PARALLEL TO THE SHORT AXIS OF THE BENCH.
  2. THE BENCH SHALL PROVIDE FOR BACK SUPPORT OR SHALL BE AFFIXED TO A WALL. BACK SUPPORT SHALL BE 42" LONG MINIMUM AND SHALL EXTEND FROM A POINT 2" MAX. ABOVE THE SEAT SURFACE TO A POINT 18" MIN. ABOVE THE SEAT SURFACE. BACK SUPPORT SHALL BE 2-1/2" MAX. FROM THE REAR EDGE OF THE SEAT MEASURED HORIZONTALLY.
  3. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE SEAT, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.
  4. WHERE INSTALLED IN WET LOCATIONS, THE SURFACE OF THE SEAT SHALL BE SLIP RESISTANT AND SHALL NOT ACCUMULATE WATER.

6 ACCESSIBLE BENCH DETAIL  
1/4" = 1'-0"



- NOTES:**
1. IN PASS THROUGH KITCHENS, WHERE COUNTERS, APPLIANCES OR CABINETS ARE ON TWO OPPOSING SIDES, OR WHERE COUNTERS, APPLIANCES OR CABINETS ARE OPPOSITE A PARALLEL WALL, CLEARANCE BETWEEN ALL OPPOSING BASE CABINETS, COUNTER TOPS, APPLIANCES, OR WALLS WITHIN KITCHEN WORK AREA SHALL BE 40" MINIMUM. PASS THROUGH KITCHENS SHALL HAVE TWO ENTRIES.
  2. SINKS SHALL BE AT 34" AFF WITH THE REQUIRED KNEE AND TOE CLEARANCE PROVIDED (REFER TO DETAIL 3/3.0 OR 5/4.0 FOR SIMILAR).
  3. AT LEAST 50% OF THE SHELF SPACE IN STORAGE FACILITIES SHALL BE ACCESSIBLE, LOCATED AT A HEIGHT WITHIN REACH RANGE SHOWN IN DETAILS 14/2.0, 15/2.0.
  4. A 30"x48" CLEAR FLOOR SPACE PROVIDED FOR ACCESS AT EACH KITCHEN APPLIANCE AND EACH ACCESSIBLE STORAGE FACILITY.
  5. CLEAR FLOOR SPACE SHALL BE POSITIONED ADJACENT TO THE DISHWASHER DOOR. THE DISHWASHER DOOR, IN THE OPEN POSITION, SHALL NOT OBSTRUCT THE CLEAR FLOOR SPACE FOR THE DISHWASHER OR THE SINK.
  6. COMBINATION REFRIGERATORS AND FREEZERS SHALL HAVE AT LEAST 50% OF THE FREEZER SPACE 544" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. THE CLEAR FLOOR SPACE SHALL BE POSITIONED FOR A PARALLEL APPROACH TO THE SPACE TO DEDICATED TO A REFRIGERATOR/FREEZER WITH THE CENTERLINE OF THE CLEAR FLOOR SPACE OFFSET 24" MAXIMUM FROM THE CENTERLINE OF THE DEDICATED SPACE.
  7. ALL STORAGE AND APPLIANCE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.

3 GUEST ROOM WITH MOBILITY FEATURES KITCHEN DETAILS  
1/4" = 1'-0"



- NOTES:**
1. FOR A PARALLEL APPROACH, A PORTION OF THE COUNTER SURFACE THAT IS 36" LONG MIN. AND 36" HIGH MAX. ABOVE THE FINISH FLOOR SHALL BE PROVIDED. A CLEAR FLOOR SPACE SHALL BE POSITIONED FOR A PARALLEL APPROACH ADJACENT TO THE 36" MIN. LENGTH OF THE COUNTER. IF THE PROVIDED COUNTER IS LESS THAN 36" LONG, THE ENTIRE COUNTER SURFACE SHALL BE 36" MAX. ABOVE THE FINISH FLOOR.
  2. FOR A FORWARD APPROACH, A PORTION OF THE COUNTER SURFACE THAT IS 36" LONG MIN. AND 36" HIGH MAX. SHALL BE PROVIDED. KNEE AND TOE CLEARANCE SHALL BE PROVIDED UNDER THE COUNTER (REFER TO DETAILS 9/2.0, 10/2.0). A CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR A FORWARD APPROACH TO THE COUNTER.

7 ACCESSIBLE SERVICE COUNTER (REGISTRATION, CHECK-OUT, CONCIERGE, ETC.) DETAIL  
1/4" = 1'-0"

ALL DRAWINGS, SPECIFICATIONS, AND NOTES SHALL BE THE PROPERTY OF WADHWA AND ASSOCIATES, INC. AND NO PART THEREOF SHALL BE REPRODUCED, COPIED, OR USED IN CONNECTION WITH ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF WADHWA AND ASSOCIATES, INC. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS ON THE JOB AND IMMEDIATELY NOTIFY WADHWA AND ASSOCIATES, INC. OF ANY VIOLATIONS FROM THESE DRAWINGS.

DRAWN:

CHECKED:

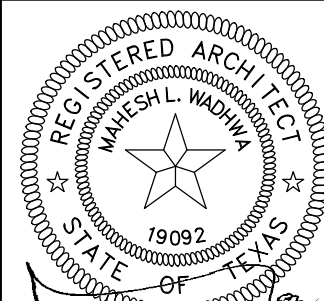
DATE : JAN 2018

NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

ISSUE

06-12-18 I.F.P.



DATE: 06/12/2018

MISC. ACCESSIBILITY DETAILS

**WA** WADHWA AND ASSOCIATES, INC.  
architects, planners  
and construction administration  
1220 BiLock #230 Ph: (713) 465-0009  
Houston, Texas 77055 Fax: (713) 465-2391

R E V I S I O N S

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JOB NO.

18-02-003

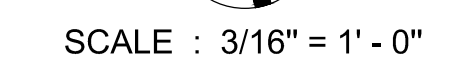
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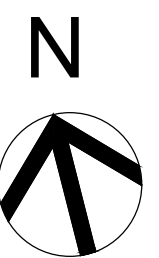
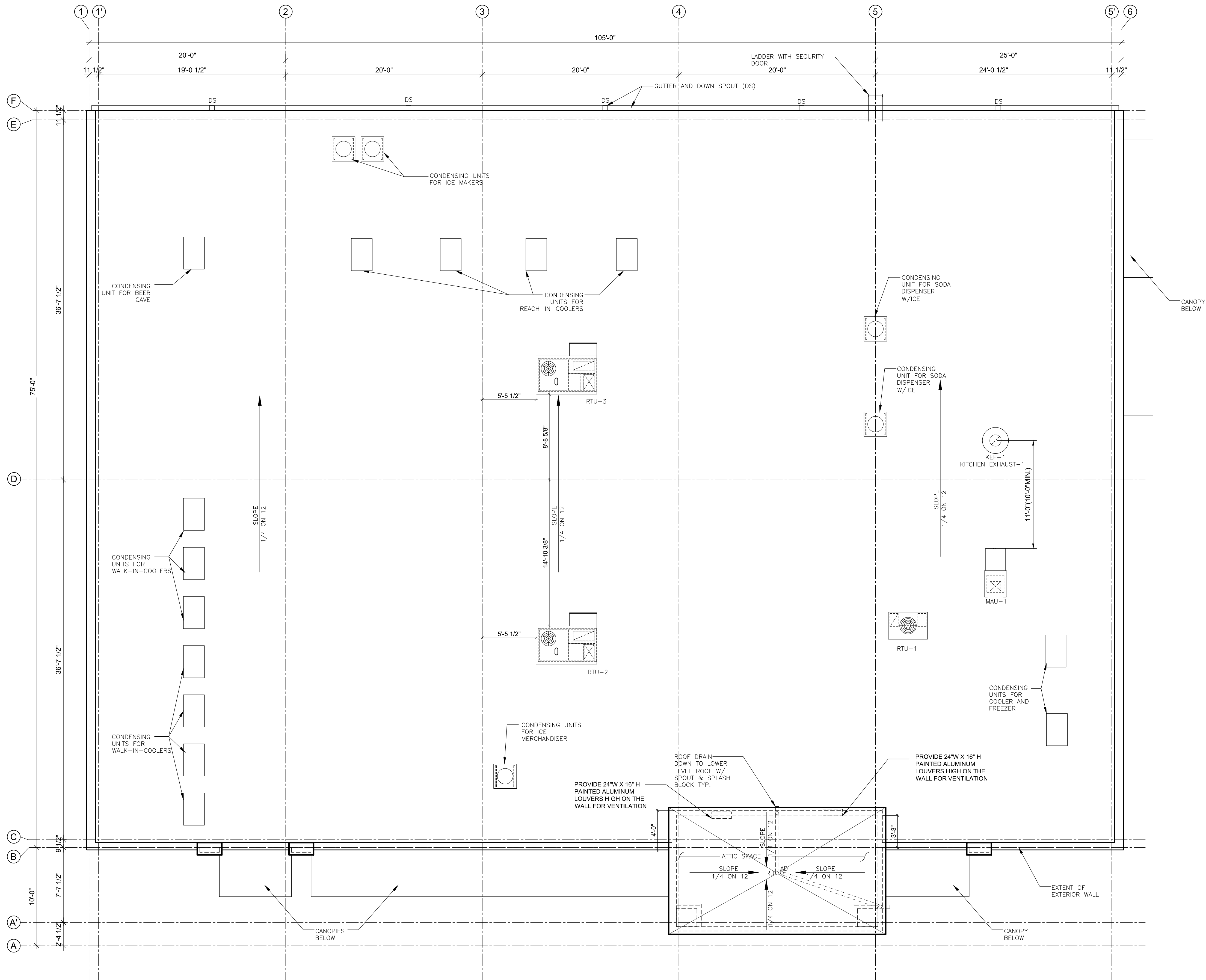
SCALE : N.T.S

FOOD MART - BAYSHORE









SCALE : 3/16" = 1' - 0"

ALL DRAWINGS, SPECIFICATIONS, AND NOTES ARE THE PROPERTY OF WADHWA AND ASSOCIATES, INC. AND NO PART THEREOF SHALL BE REPRODUCED, COPIED, OR USED IN CONNECTION WITH ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF WADHWA AND ASSOCIATES, INC. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR THE ACCURACY OF ALL DIMENSIONS, CONDITIONS, AND INFORMATION SHOWN ON THESE DRAWINGS. IMMEDIATELY OF ANY VIOLATIONS FROM THESE DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING THEM.

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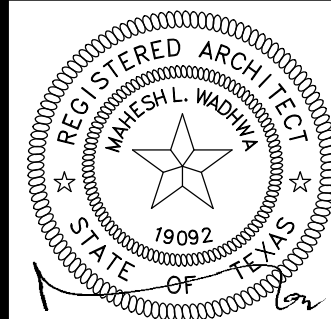
DATE : JAN 2018

# NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

ISSUE

06-12-18 I.F.P.



DATE: 06/12/2018

## ROOF PLAN

**WA** WADHWA AND ASSOCIATES, INC.  
architects, planners  
and construction administration  
1220 Biolock #230 Ph: (713) 465-0009  
Houston, Texas 77055 Fax: (713) 465-2391

R E V I S I O N S

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JOB NO.

18-02-003

SHEET NO.

A1.1

FOOD MART - BAYSHORE

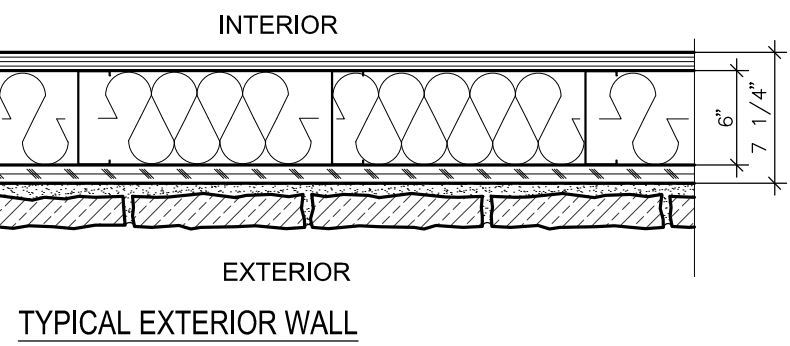
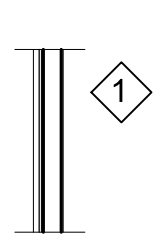


## EQUIPMENT SCHEDULE C-STORE

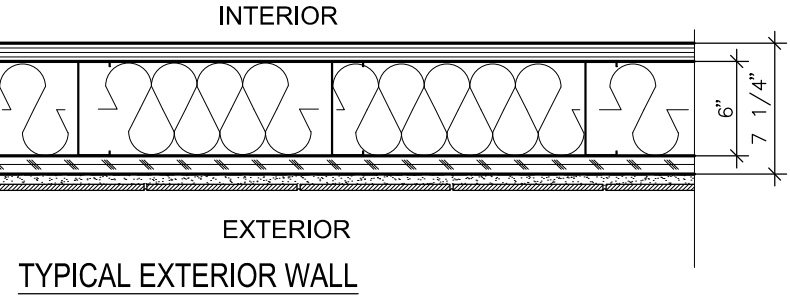
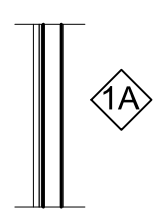
UNIT	QTY	DESCRIPTION	MFGR	MODEL	POWER	REMARK
①	1	SALES COUNTER			–	BY CONTRACTOR
②	1	FLOOR SAFE (UNDER COUNTER)	N.I.C.		115 V	
③	2	CASH REGISTER	N.I.C.		115 V / 1 PH 2 A	
④	1	CHARGE CARD	N.I.C.		115 V	
⑤	1	LOTTO MACHINE	N.I.C.		115 V	
⑥	1	11"–10" X 12" D. CIGARETTE RACK			–	BY VENDOR
⑦	1	ICE MERCHANDISER	ICE–O–MATIC	GEM 0655		
⑧	2	MEAT COOLER	HUSSMAN	M5 • EP		BY CONTRACTOR
⑨	1	FREEZER				
⑩	1	FREEZER				
⑪	1	COOLER			–	
⑫	85	GONDOLA SHELVING	N.I.C.		–	
⑬	8	END CAPS GONDOLA	N.I.C.		–	
⑭	5	VIDEO CAMERA AT CLG.	N.I.C.		115 V	
⑮	1	ATM	N.I.C.		115 V	
⑯	1	COFFEE	N.I.C.		115 V/230/PH/ 7650 W	
⑰	1	WALK–IN–COOLER	N.I.C.		VERIFY WITH VENDOR/ MANUFACTURER	
⑱	21	REFRIGERATOR DOOR 27" X 72"	N.I.C.		11 LTS • 50W 115 V, TOTAL= 550 W	
⑲	7	COOLER SHELVING UNITS	N.I.C.		–	
⑳	6	REFRIGERATION COILS	N.I.C.		115 V / 1 PH 22A	
㉑	1	COOLER COMPRESSOR ON ROOF	N.I.C.		230 V, 3 PH 60 A	
㉒	4	3–DOOR (GLASS), REACH IN FREEZER (W/REMOTE CONDENSER)	N.I.C.	GDM–49F–RC	208/230/60/1 PH 20 AMP BRKR.	
㉓	1	DEEP FRYER	N.I.C.			
㉔	1	HOT PLATE(GAS)	RADIANCE	TAHP–24–4	128 000 BTU	
㉕	1	GRIDDLE				
㉖	1	HOOD				BY CONTRACTOR
㉗	1	SLICER	N.I.C.		115/230 V/ 60 HZ/ 1 PH, 7650 W	BY OWNER
㉘	1	CAPPUCCHINO DISPENSER	N.I.C.		115 V/ 60 HZ/ 1 PH, 15 AMPS	BY OWNER
㉙	2	44.375" W.30" DRINK DISPENSER W/ICE	N.I.C.	CONELIUS	ENDURO 300	
㉚	1	JUICE DISPENSER	N.I.C.		115 V, 5.5 A 370 W	
㉛	1	MICROWAVE OVEN OVER/UNDER COUNTER	N.I.C.	AMANA COMERCIAL	RMS10DS	
㉜	1	DONUT			115 V	
㉝	1	HOT DOG & BUN	N.I.C.		115 V/ 60 HZ/ 1 PH 1700 W	
㉞	1	TAMALE WARMER	N.I.C.		115 V/ 60 HZ/ 1 PH	
㉟	1	SLUSH BEVERAGE	N.I.C.		115 V/ 60 HZ/ 1 PH 15 A	
㊱	1	4"–0" SERVICE–MILK SHAKE	F'REAL	11–CSGF–X1–FRR		
㊲	1	(22) CUP DISPENSER W/ LIDS AND STRAWS				BY CONTRACTOR
㊳	1	DRINK BOX				BY OWNER
㊴	1	ICE MERCHANDISER				
㊵	1	FISH ASSY. VEND				BY CONTRACTOR
㊶	1	FAX MACHINE	N.I.C.		115 V	
㊷	1	PRINTER	N.I.C.		115 V	
㊸	1	T.V.			115 V	BY OWNER
㊹	1	WARMER				BY CONTRACTOR
㊺	1	2–ICE MAKER MACHINES	N.I.C.	ICE–O–MATIC	GEM0650–PEARL	208/230/60/1 PH WYDXH (48.25X24.25X26)
㊻	1	MOP SINK			–	BY CONTRACTOR
㊼	1	TANKLESS WATER HEATER				BY CONTRACTOR
㊽	1	3 COMP. S.S. SINK	ADVANCE TABCO	FC–3–1620–18LR	–	BY CONTRACTOR
㊾	1	HAND SINK			–	BY CONTRACTOR
㊿	1	BAG–IN–BOX AND CO2 TANK			–	
1		PUMPS & CARBONATOR SYSTEM				
2		PROPANE TANK CAGE				
1		BEER CAVE				
1		MEAT SLICER				

## NOTES:

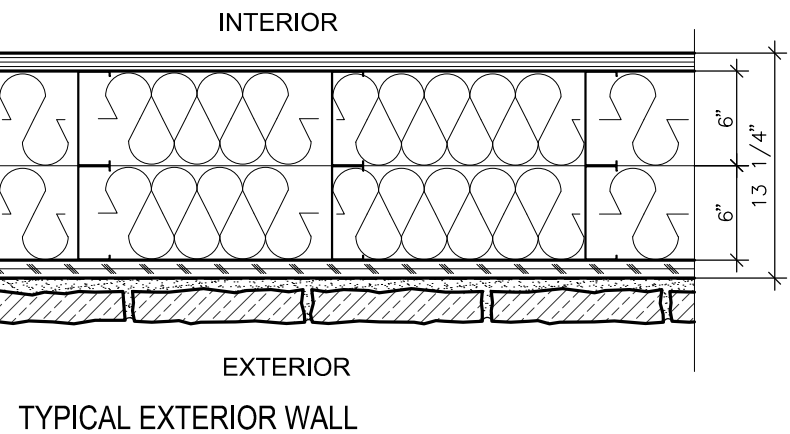
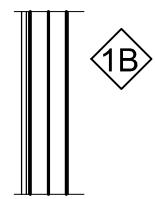
- COOLER &amp; FREEZER COMPRESSORS ON ROOF.



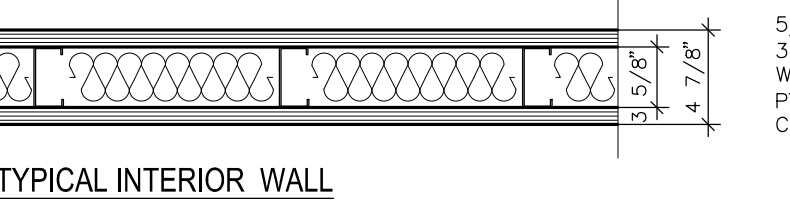
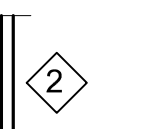
EXTERIOR WALL W/6" METAL STUDS 16 GA. AT 16" O.C. WITH 5/8" GYP. BD. ON THE INTERIOR SIDE AND 5/8" PLYWOOD SHEATHING/O.S.B. W/ VAPOR BARRIER (TYVEK) FINISHED WITH DRYSTACK STONE VENEER OVER EXPANDED METAL LATH AND MORTAR ON THE EXTERIOR.



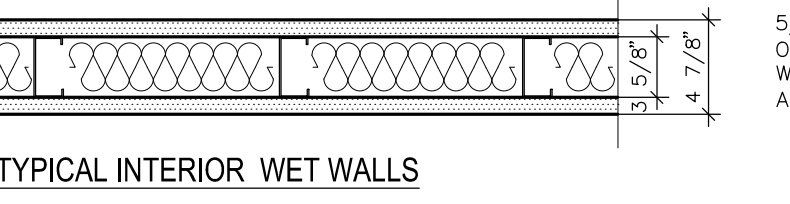
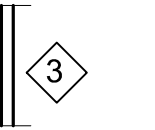
EXTERIOR WALL W/6" METAL STUDS 16 GA. AT 16" O.C. WITH 5/8" GYP. BD. ON THE INTERIOR SIDE AND 5/8" PLYWOOD SHEATHING/O.S.B. W/ VAPOR BARRIER (TYVEK) AND 3/4" STUCCO FINISH W/ METAL LATH ON EXTERIOR SIDE.



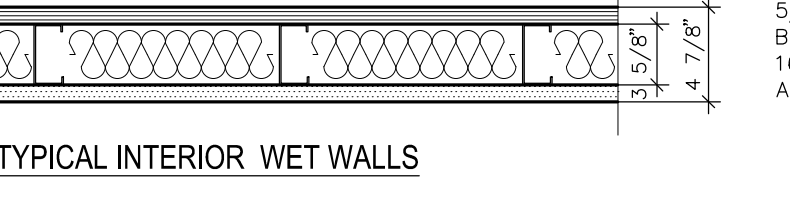
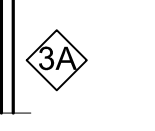
EXTERIOR WALL W/ DOUBLE 6" METAL STUDS 16 GA. AT 16" O.C. WITH 5/8" GYP. BD. ON THE INTERIOR SIDE AND 5/8" PLYWOOD SHEATHING/O.S.B. W/ VAPOR BARRIER (TYVEK) FINISHED WITH DRYSTACK STONE VENEER OVER EXPANDED METAL LATH AND MORTAR ON THE EXTERIOR.



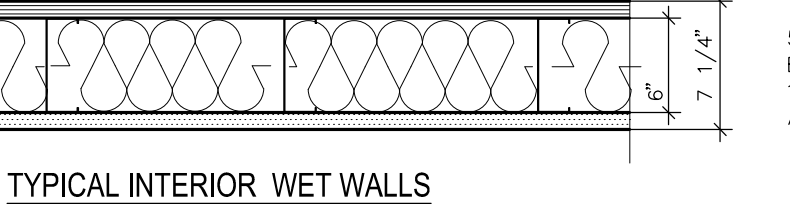
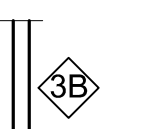
5/8" GYP. BOARD ON BOTH SIDES OF 3 5/8" STUDS, 26 GA. @ 16" O.C. WITH FULL BATT INSULATION, T & B PTD. AND/OR TO RECEIVE WALL COVERING.



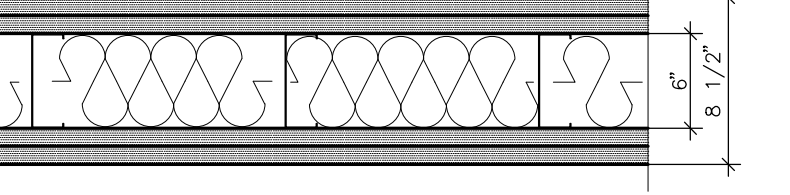
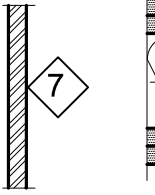
5/8" GREEN GYP. BOARD ON BOTH SIDES OF 3 5/8" STUDS, 26 GA. @ 16" O.C. WITH FULL BATT INSULATION, T & B PTD. AND/OR TO RECEIVE WALL COVERING.



5/8" GREEN GYP. BOARD ON ONE SIDE 5/8" GYP. BOARD ON OTHER SIDE OF 3 5/8" STUDS, 26 GA. @ 16" O.C. WITH FULL BATT INSULATION, T & B PTD. AND/OR TO RECEIVE WALL COVERING.

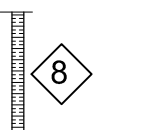


5/8" GREEN GYP. BOARD ON ONE SIDE 5/8" GYP. BOARD ON OTHER SIDE OF 3 5/8" STUDS, 26 GA. @ 16" O.C. WITH FULL BATT INSULATION, T & B PTD. AND/OR TO RECEIVE WALL COVERING.



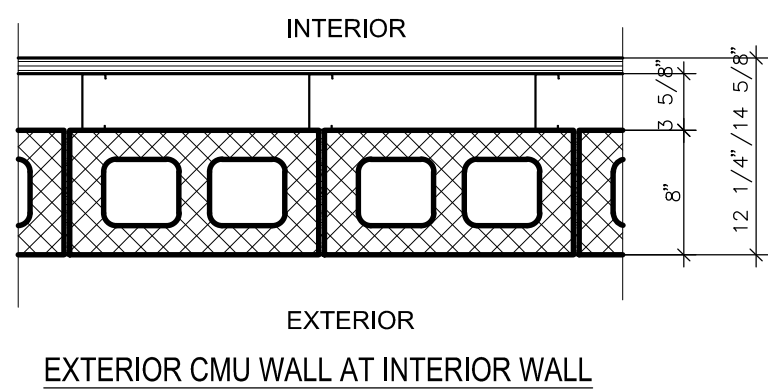
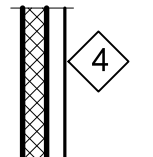
2HR FIRE RATED INTERIOR WALL W/6" METAL STUDS 16 GA. AT 16" O.C. WITH (2) LAYERS OF 5/8" TYPE-X GYP. BD. ON BOTH SIDES

UL # U419

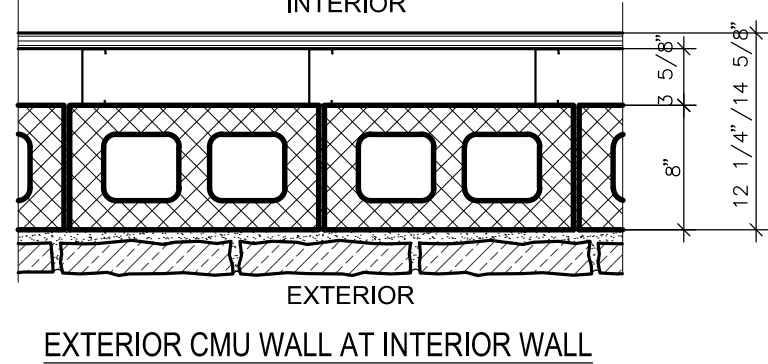
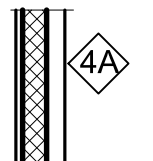


BY COOLER / FREEZER MANUFACTURER

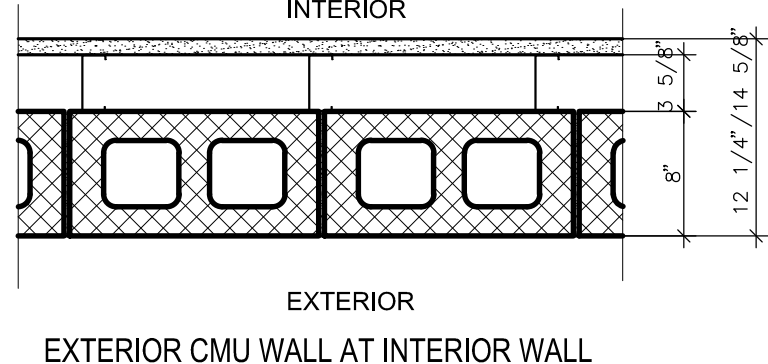
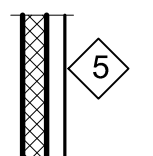
TYPICAL WALK-IN-COOLER / FREEZER INSULATED WALLS



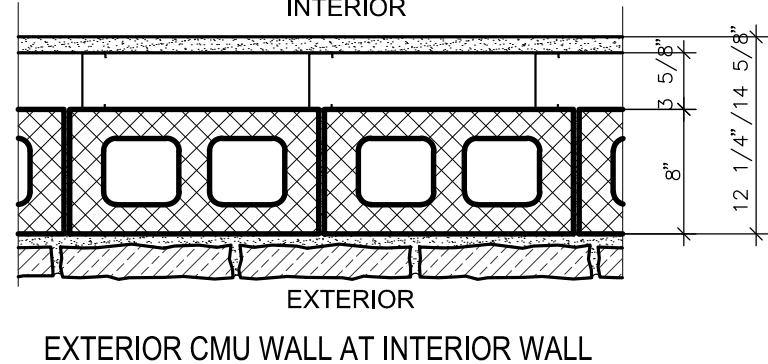
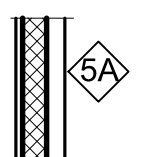
CONCRETE MASONRY UNIT WALL WITH PAINT ON EXTERIOR SIDE WITH 3 5/8" STUDS 26 GA. @ 16" O.C. AND 5/8" GYP. BD. ON ONE SIDE AND/OR TO RECEIVE WALL COVERING.



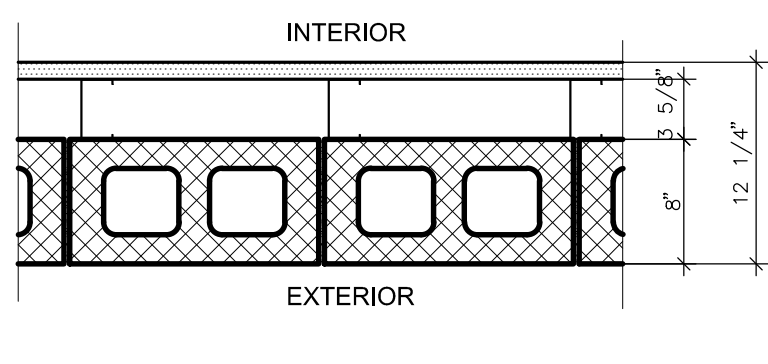
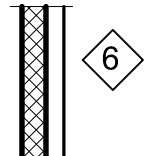
CONCRETE MASONRY UNIT WALL WITH DRYSTACK STONE VENEER OVER EXPANDED METAL LATH AND MORTAR ON THE EXTERIOR SIDE WITH 3 5/8" STUDS 26 GA. @ 16" O.C. AND 5/8" GYP. BD. ON ONE SIDE AND/OR TO RECEIVE WALL COVERING.



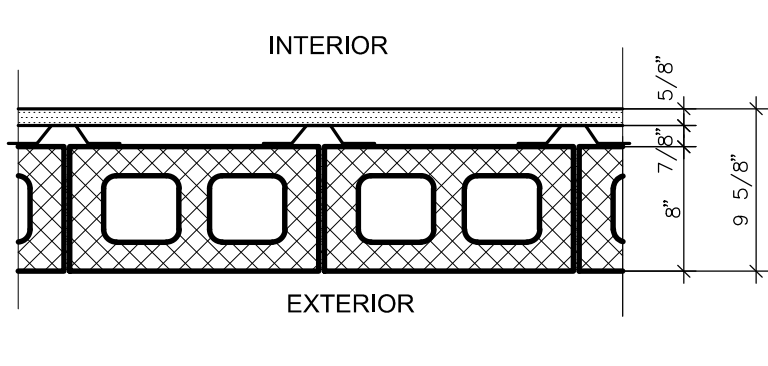
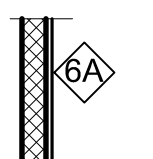
CONCRETE MASONRY UNIT WALL WITH PAINT ON EXTERIOR SIDE WITH 3 5/8" STUDS 26 GA. @ 16" O.C. AND 5/8" GYP. BD. ON ONE SIDE AND/OR TO RECEIVE WALL COVERING.



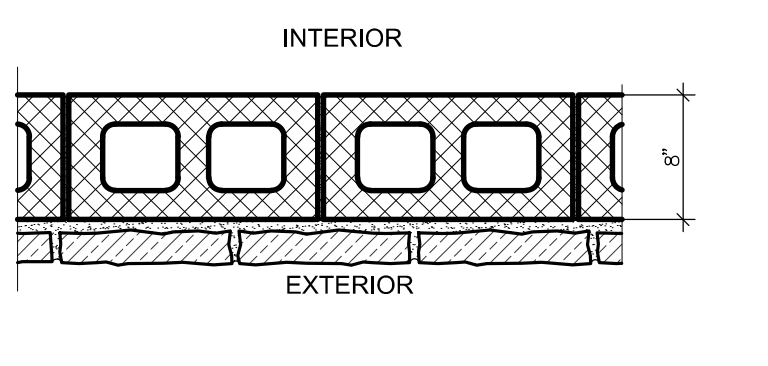
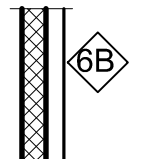
CONCRETE MASONRY UNIT WALL WITH DRYSTACK STONE VENEER OVER EXPANDED METAL LATH AND MORTAR ON THE EXTERIOR SIDE WITH 3 5/8" STUDS 26 GA. @ 16" O.C. AND 5/8" GREEN GYP. BD. ON ONE SIDE AND/OR TO RECEIVE WALL COVERING.



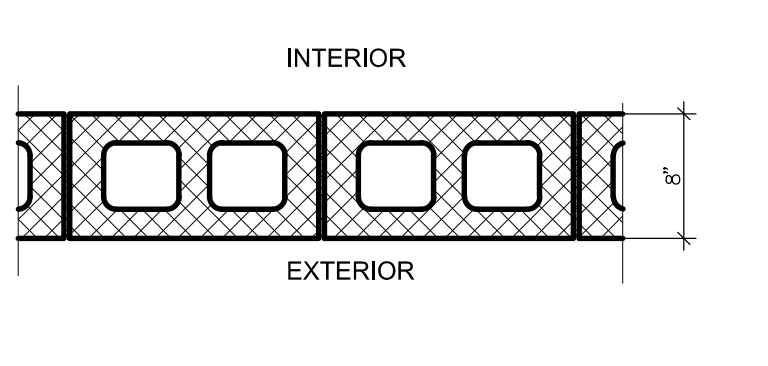
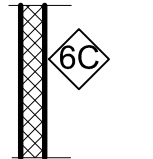
CONCRETE MASONRY UNIT WALL PAINTED ON EXTERIOR SIDE WITH 3 5/8" STUDS 26 GA. @ 16" O.C. AND 5/8" GREEN GYP. BD. ON ONE SIDE AND/OR TO RECEIVE WALL COVERING.



CONCRETE MASONRY UNIT WALL PAINTED ON EXTERIOR SIDE WITH 3 5/8" STUDS 26 GA. @ 16" O.C. AND 5/8" GREEN GYP. BD. ON ONE SIDE AND/OR TO RECEIVE WALL COVERING.



CONCRETE MASONRY UNIT WALL WITH DRYSTACK STONE VENEER OVER EXPANDED METAL LATH AND MORTAR ON THE EXTERIOR SIDE



CONCRETE MASONRY UNIT WALL PAINTED ON EXTERIOR AND INTERIOR.

## GENERAL NOTES:

- ANY DISCREPANCIES IN THE DWGS. WITH FIELD CONDITIONS SHALL BE NOTIFIED TO WAI IMMEDIATELY PRIOR TO START OF WORK.
- ALL WORK SHALL BE DONE PER IRC 2012 AND PER CITY OF BROOKSHIRE, TEXAS, REGULATIONS.
- CONTRACTOR MUST VISIT THE JOB SITE PRIOR TO BIDDING FOR THE JOB.
- FIELD VERIFY ALL SITE CONDITIONS, DIMENSIONS, UTILITY LOCATION, SIZE AND CONDITIONS.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL WATER LINES, PLUMBING LINES AND ANY OTHER UTILITY LINES DURING CONSTRUCTION WORK.
- STRUCTURAL SHOP DRAWINGS SHALL BE APPROVED BY WAI PRIOR TO FABRICATION.
- CONTRACTOR TO COORDINATE WITH OWNER AND EQUIPMENT SUPPLIER FOR EXACT LOCATION AND CONNECTION TO THE EQUIPMENTS.
- ALL WORK SHALL CONFORM TO HEALTH CODES AND REGULATIONS.
- ALL EQUIPMENT SHALL MEET N.S.F. STANDARDS.
- ALL INTERIOR WALLS TO BE WITH 3 5/8" METAL STUDS U.N.O.
- ENTIRE V.C.T. FLOOR SHALL BE SEALED AND WAXED.
- CONTRACTOR TO PROVIDE COMPLETE SPECIFICATIONS AND ENGINEERING DWGS. FOR CANOPY WITH THE BID.
- ALL INSULATION SHALL HAVE FLAME SPREAD RATING OF NOT MORE THAN 25 AND SMOKE DEVELOPED RATING OF LESS THAN 450
- DO NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- STEEL SHOP DRGS. SHALL BE PROVIDED BY FABRICATOR AND SHALL BE SUBMITTED TO WAI FOR REVIEW PRIOR TO FABRICATION.
- BLDG STEEL FRAMING SHALL BE DESIGNED TO CARRY WIND LOADS FROM CMU WALLS.
- MILLWORK SHOP DRAWINGS SHALL BE APPROVED BY WAI PRIOR TO FABRICATION.
- ALL EXITS SHALL BE INSECT/RODENT PROOF.

## HEALTH NOTES

- ALL NEW EXHAUST HOODS WILL BE CONSTRUCTED TO MEET THE FOLLOWING STANDARDS, "NSF, UL, AND NFPA-96". ALL NEW HOODS TO BEAR UL CLASSIFIED LABEL WITHOUT DAMPERS IN EXHAUST VENT COLLARS. HOODS ARE DESIGNED TO MEET OR EXCEED 50 FPM CAPTURE VELOCITY AT THE COOKING SURFACE EDGE AND HAVE 1'-0" MINIMUM OVERHANG AT ALL EXPOSED COOKING AREAS.
- ALL COOKING EQUIPMENT UNDER EXHAUST HOODS ARE EITHER ON CASTERS WITH FLEXIBLE UTILITY QUICK DISCONNECTS OR FIXED ON STAINLESS STEEL LEGS AND SEALED TO WALLS WITH CLEAR SILICONE SEALANT.
- DISHWASHERS WILL BE DESIGNED AS HIGH TEMPERATURE WASH SYSTEM, WITH A WASH TEMPERATURE OF 140° MINIMUM AND A FINAL RINSE TEMPERATURE OF 180° MINIMUM.
- THE HOODS AND EXHAUST DUCT SYSTEMS BY G.C. SHALL BE PROVIDED WITH AN AUTOMATIC FIRE EXTINGUISHING SYSTEM.
- SHUT-OFF VALVES, REQUIRED AS PART OF THE FIRE SUPPRESSION SYSTEM FOR GAS AND/OR ELECTRIC COOKING EQUIPMENT, UNDER OR ADJACENT TO HOODS, SHOULD BE PROVIDED BY G.C. AS REQUIRED PER GOVERNING JURISDICTION AND LOCAL AND/OR STATE CODES.
- ALL REFRIGERATION EQUIPMENT SHALL HAVE THERMOMETERS WHICH ARE EASILY READABLE, IN PROPER WORKING CONDITION AND ACCURATE, WITHIN A RANGE OF PLUS OR MINUS TWO (2) DEGREES.
- COUNTER TOP EQUIPMENT NOT READILY MOVABLE, WEIGHING OVER 80 POUNDS, WILL BE PROVIDED WITH LEGS OR FEET AT LEAST FOUR (4") INCHES HIGH.
- ALL CHEMICAL INJECTION SYSTEMS MUST BE INSTALLED DOWNSTREAM FROM A VACUUM BREAKER OR AIR GAP, TO PREVENT POSSIBLE BACK SIPHONAGE TO THE CHEMICALS INTO THE WATER LINE SYSTEM.
- ALL CUTTING BOARDS AND WORK SURFACES SHALL BE OF NON-WOOD CONSTRUCTION.
- AN AISLE SPACE OF THIRTY-SIX (36") INCHES OR MORE SHALL BE PROVIDED WITHIN ALL WORK AND STORAGE AREAS.
- BACKSPASHES OF EQUIPMENT SHALL BE SEALED TO WALLS WITH CLEAR SILICONE.
- VACUUM BREAKERS, WHEN USED, TO BE MINIMUM OF SIX (6") INCHES ABOVE THE FLOOD LEVEL RIM WITH NO SHUT OFF DEVICES BEYOND THE DISCHARGE OF THE VACUUM BREAKER.
- PROVIDE A MINIMUM OF 50 FOOT CANDLES OF LIGHTING IN ALL FOOD PREPARATION, COOKING AND DISHWASHING AREAS. LIGHTING IS TO BE SHIELDED OVER EXPOSED FOOD AND UTENSIL AREAS. PROVIDE A MINIMUM OF 50 FOOT CANDLES OF LIGHTING OVER FOOD SERVING AND PICKUP AREAS.
- HAND WASHING FACILITIES ARE REQUIRED FOR FOOD PREPARATION, SERVING AND/OR UTENSIL WASHING AREAS AND ARE SHOWN ON THE KITCHEN EQUIPMENT FLOOR PLAN.
- ALL OPENINGS IN CONSTRUCTION WILL BE SEALED TO WITHIN 1/32 OF AN INCH.
- THE USE OF SEALANTS MUST BE LISTED AS APPROVED BY THE NATIONAL SANITATION FOUNDATION (NSF) UNDER STANDARD C-2.
- SEALANTS MAY BE USED ONLY IN STRUCTURALLY SOUND JOINTS AND SEAMS. SEALANTS MAY NOT BE UTILIZED IN FOOD AND SPLASH CONTACT SURFACES, TO FILL OPEN SPACES OR VOIDS WHICH RESULT DUE TO IMPROPER FABRICATION. ANY OPENING IN EXCESS OF 1/8 INCH SHALL BE CONSIDERED EXCESSIVE AND MUST BE CLOSED USING PROPER FIELD JOINT.
- OPENINGS AROUND SERVICE AND UTILITY LINES SHOULD BE CLOSED AS FAR AS POSSIBLE WITH COLLARS, GROMMETS AND FLEXIBLE FORM GASKETS. SEALANTS MAY NOT BE USED TO SEAL SERVICE AND UTILITY LINES TO WALLS OR ADJACENT PIECES OF EQUIPMENT.
- REFER TO PLUMBING DRAWINGS ON RPZ (BACKFLOW PREVENTER) ON ALL KITCHEN EQUIPMENT.

SCALE : N.T.S

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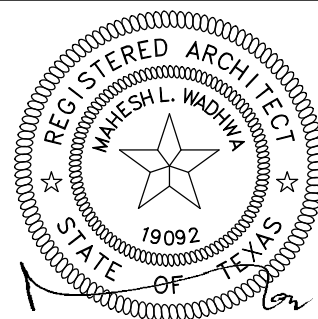
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## WALL TYPES &amp; GEN. NOTES

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and construction administration

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## R E V I S I O N S

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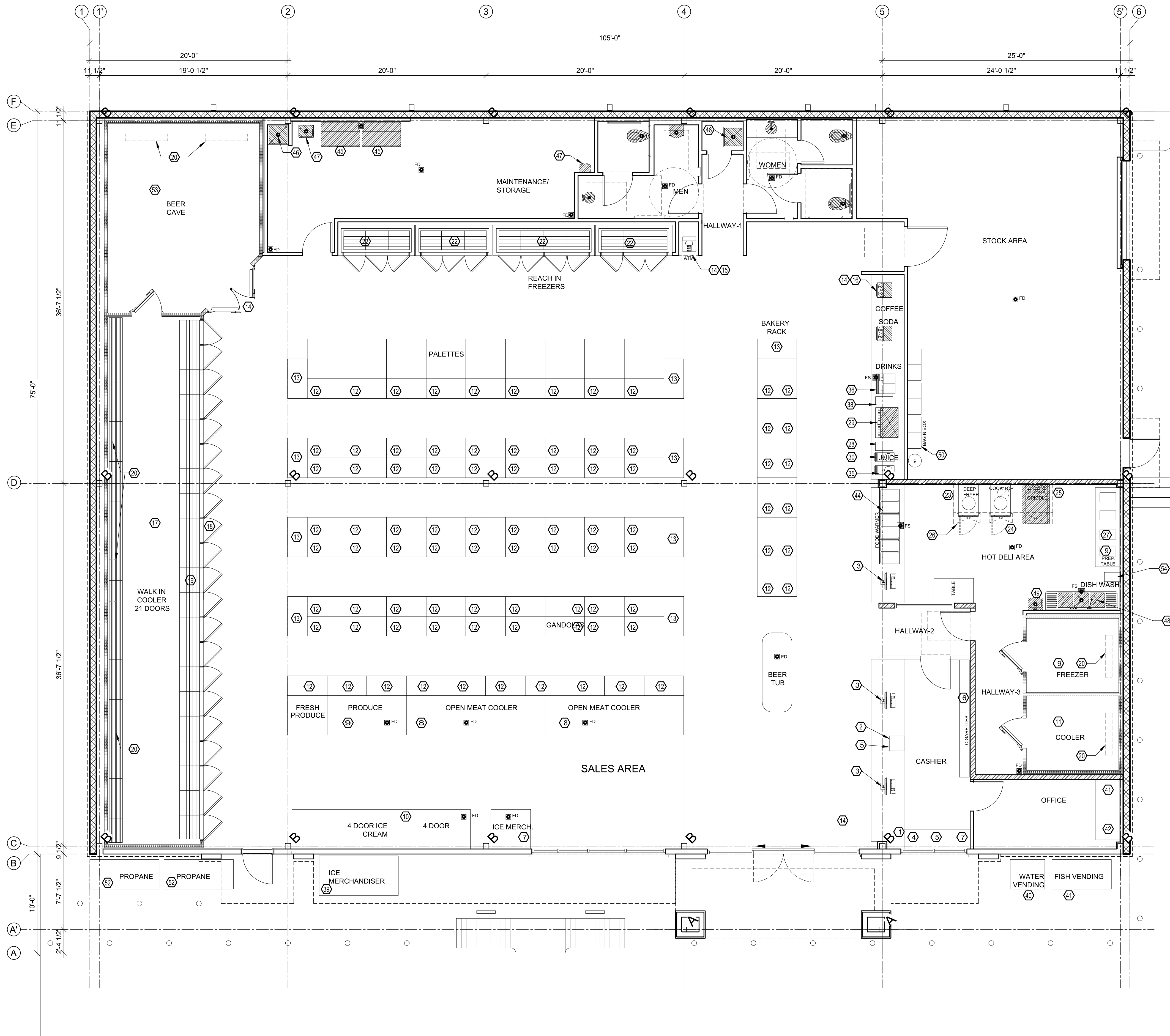
18-02-003

SHEET NO.

A1.2

FOOD MART - BAYSHORE





SCALE : 3/16" = 1' - 0"

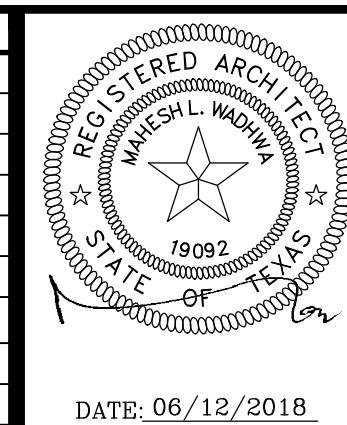
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DATE : JAN 2018

# NEW LAWRENCE GROCERY

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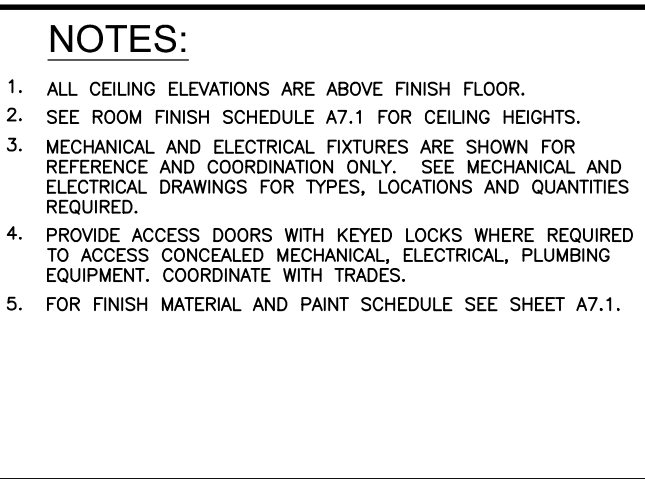
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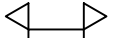











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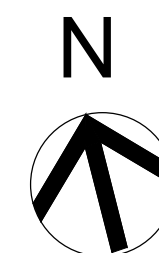
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18-02-003  
SHEET NO.  
**A1.3**





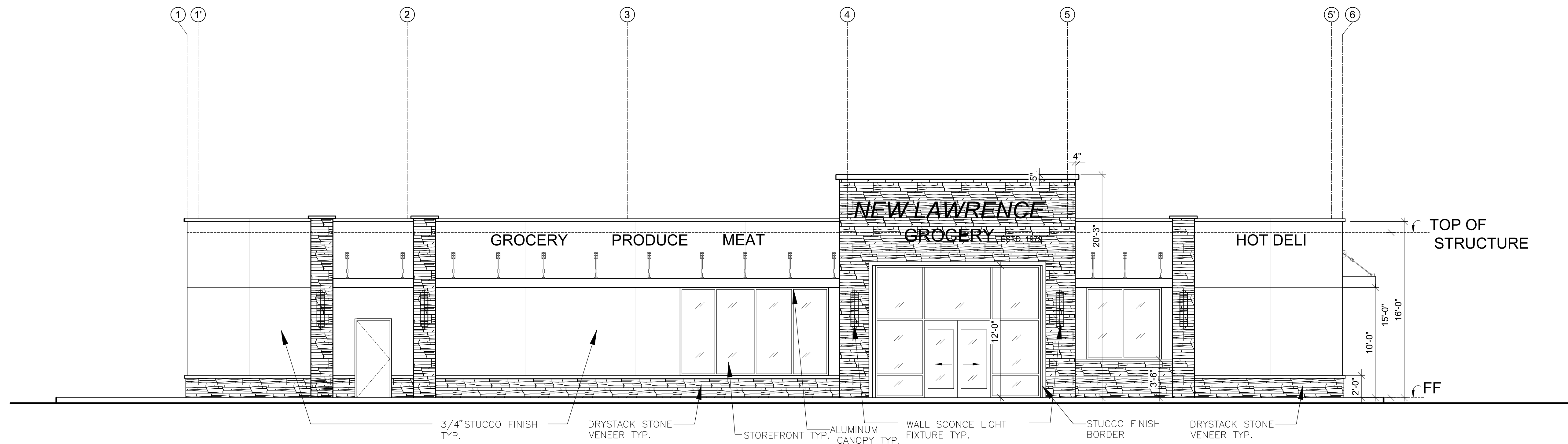
SYMBOL LEGEND	
QWB	GYPSUM BOARD
T.C.T	2"x2" TAGULAR ACOUSTIC CEILING TILE
A.C.T	2"x4" ACOUSTIC CEILING TILE
VACT	2"x4" VINYL CEILING TILE FACED LAY-IN
	2x4 RECESSED FLUORESCENT LIGHT FIXTURE
	RECESSED LIGHT FIXTURES
	PENDANT HIGH BAY LIGHT SUSPENDED FROM ROOF STRUCTURE
	WALL SCONCE
	CEILING/ WALL MOUNTED EXIT SIGN
	CEILING/ WALL MOUNTED EMERGENCY LIGHT
	RETURN OR EXHAUST AIR GRILLE
	SUPPLY AIR DIFFUSER
	CEILING EXHAUST GRILLE
	CEILING HEIGHT ELEVATION/CEILING MATERIAL
	CEILING TILE AND GRID
	SWS STAINED WOOD SLATS EXTERIOR TILE
	EX EXPOSED STRUCTURE
	ALWD ALUMINUM CEILING PANEL WOOD GRAIN FINISH
	QWB GYP. BOARD BULKHEAD, SOFFIT OR CEILING
	ST STUCCO/ EIFS FINISH
	AL ANODIZED ALUMINUM SOFFIT/CEILING PANEL



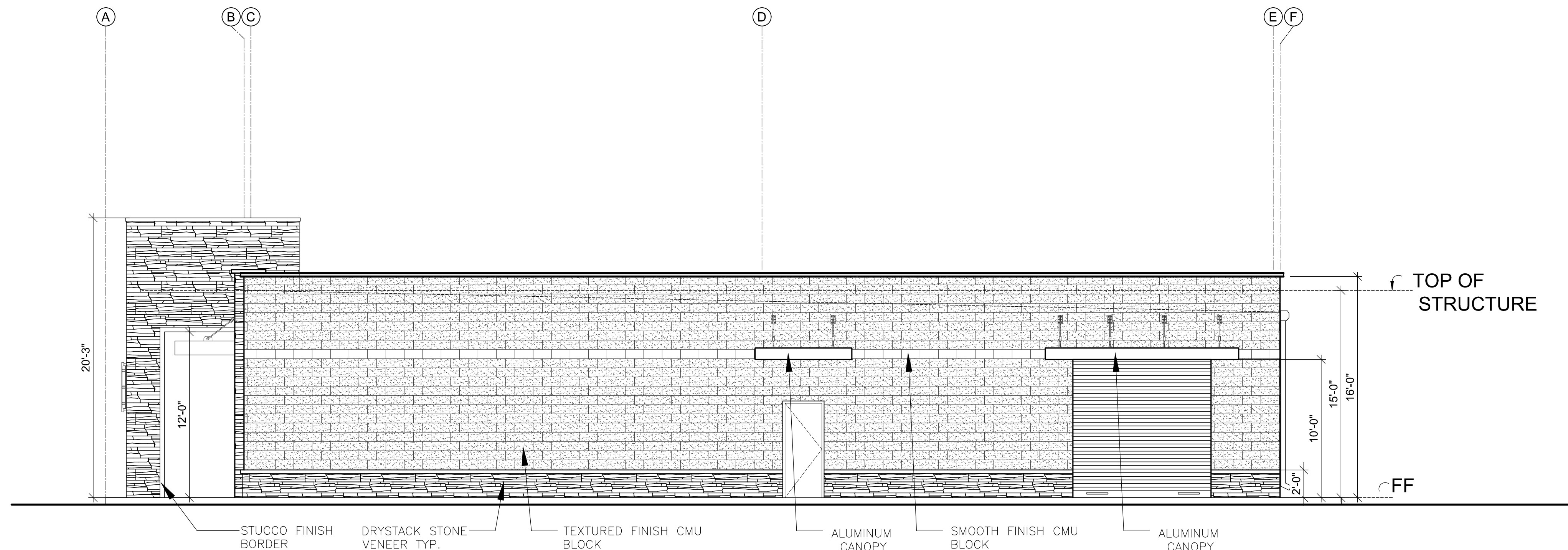
SCALE : 3/16" = 1' - 0"

## A1.4





1 FRONT ELEVATION



2 EAST ELEVATION

SCALE : 3/16" = 1' - 0"

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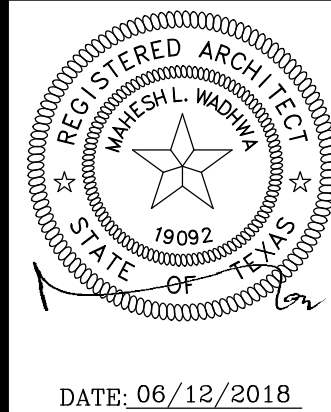
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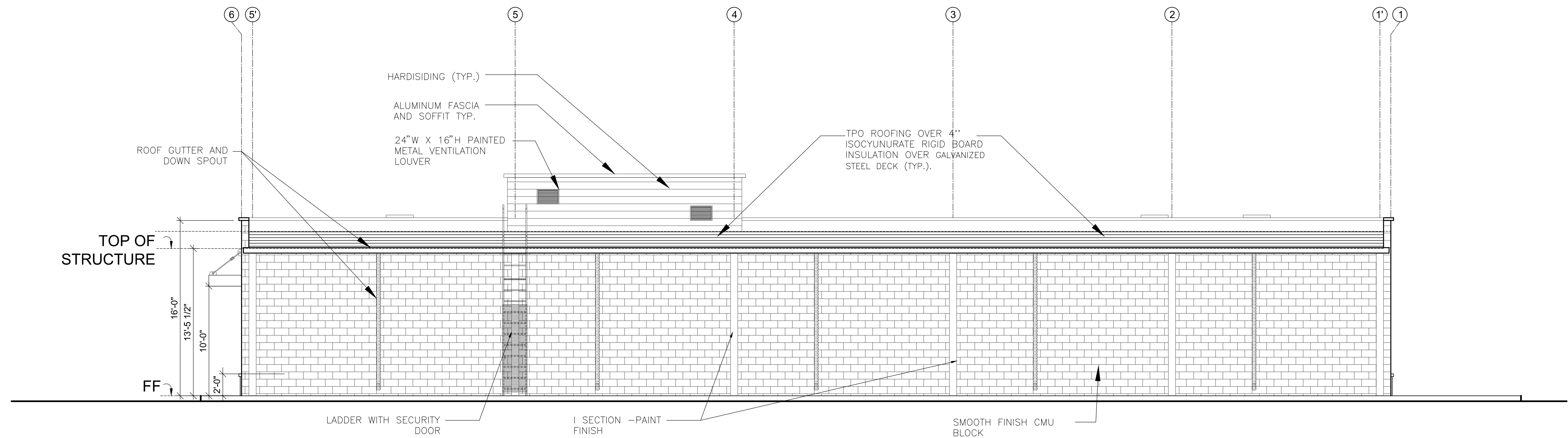
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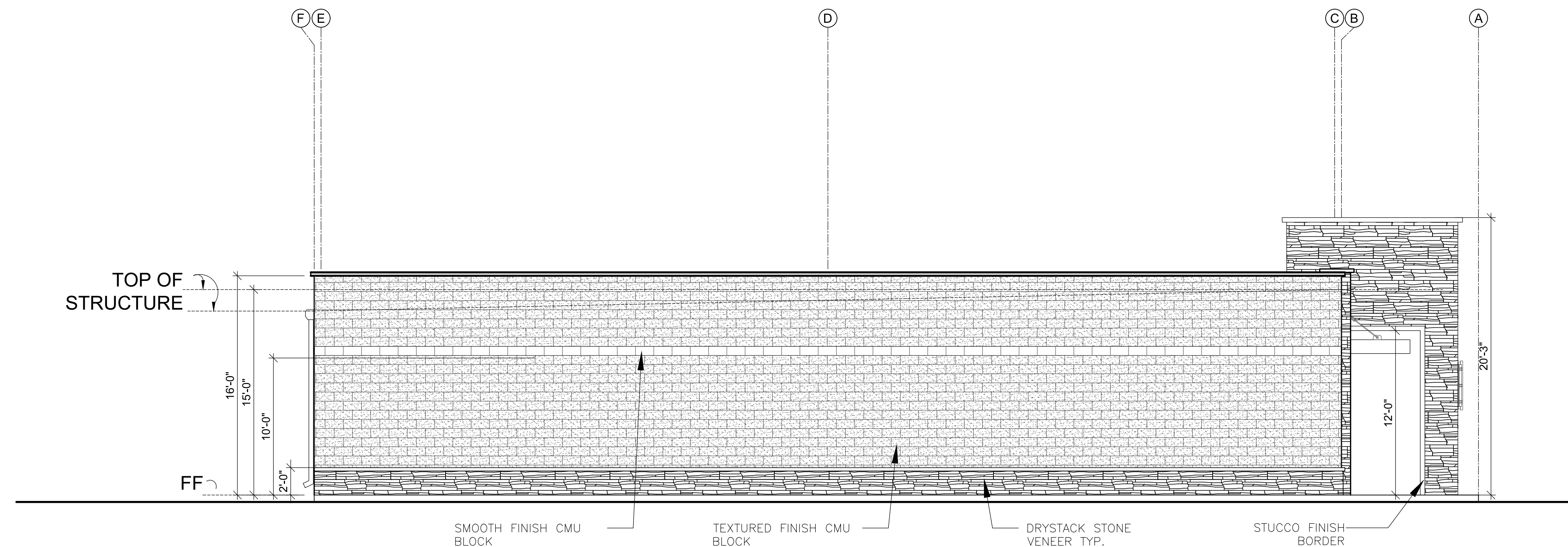
A2

FOOD MART - BAYSHORE





1 REAR ELEVATION



2 WEST ELEVATION

SCALE : 3/16" = 1' - 0"

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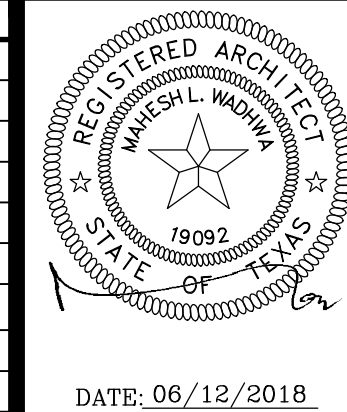
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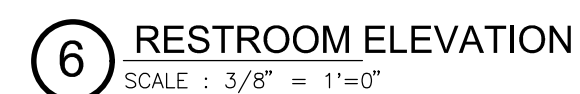
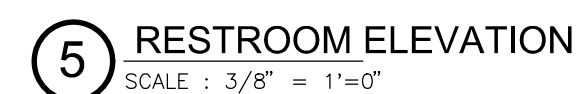
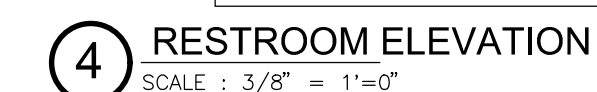
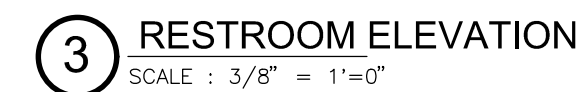
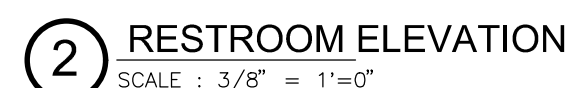
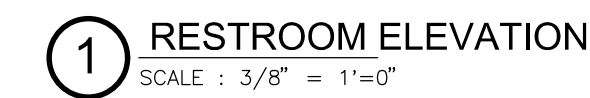
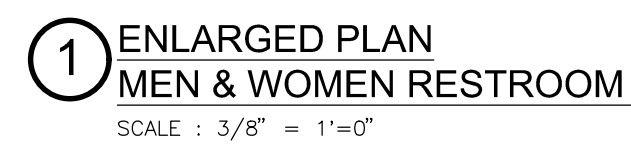
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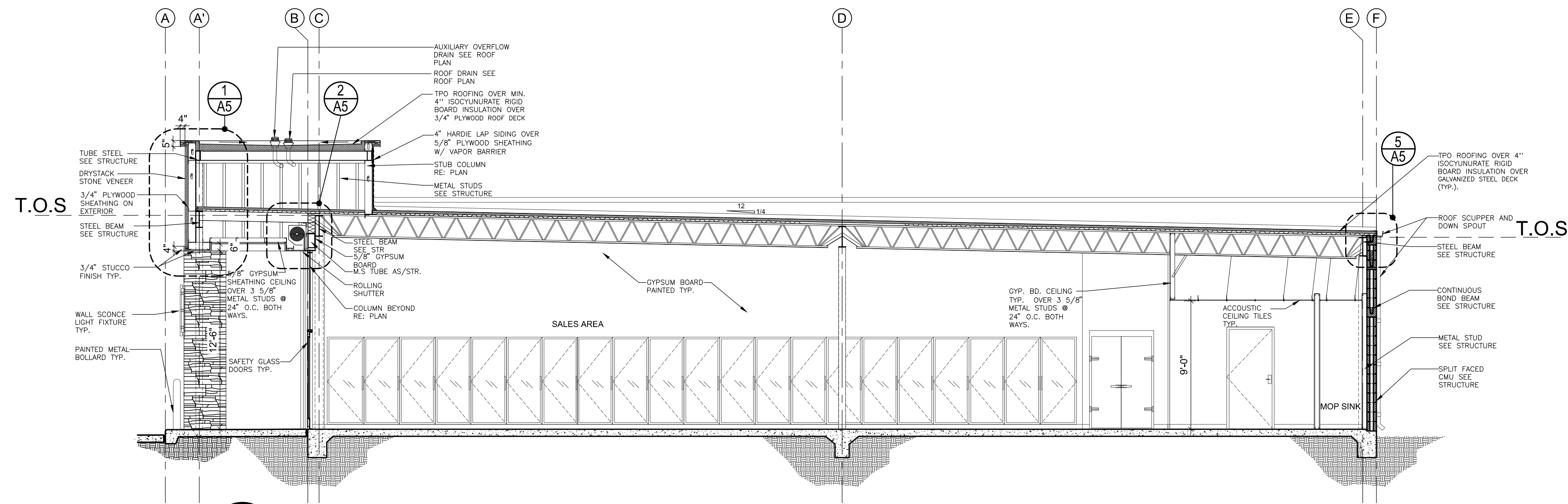
FOOD MART - BAYSHORE



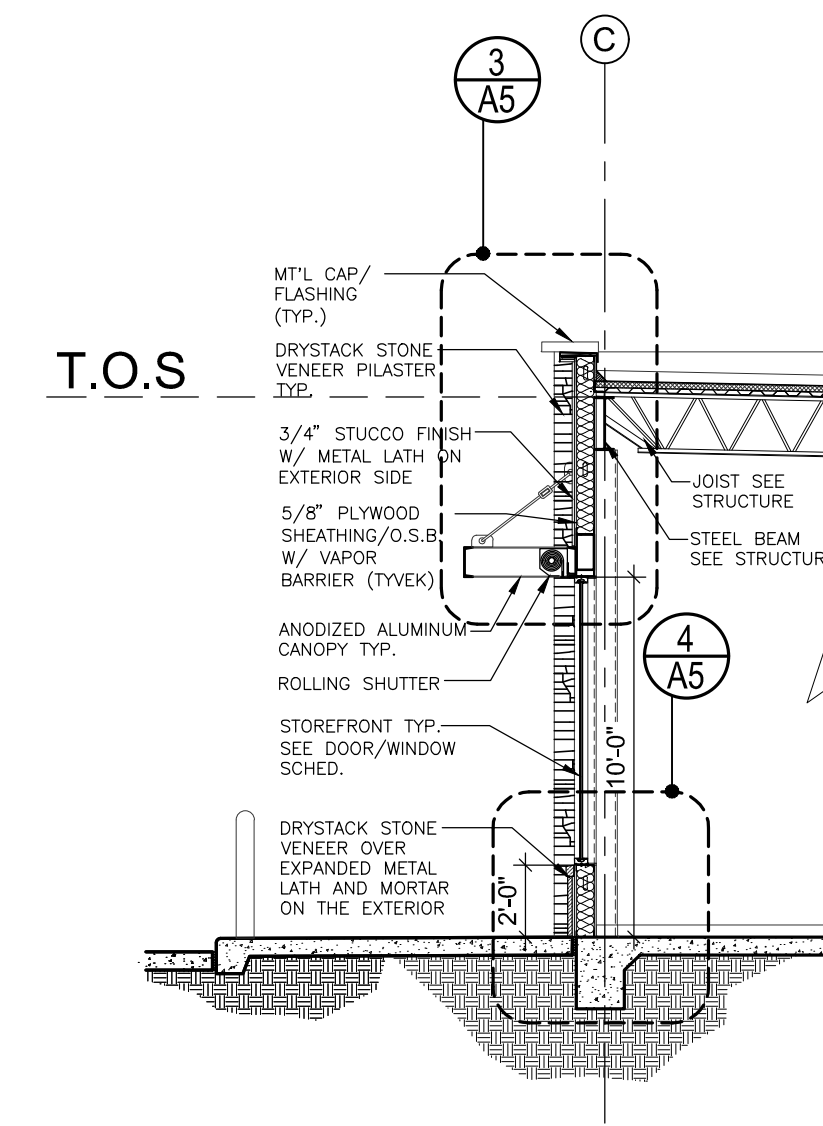


OOD MART , BAYSHORE

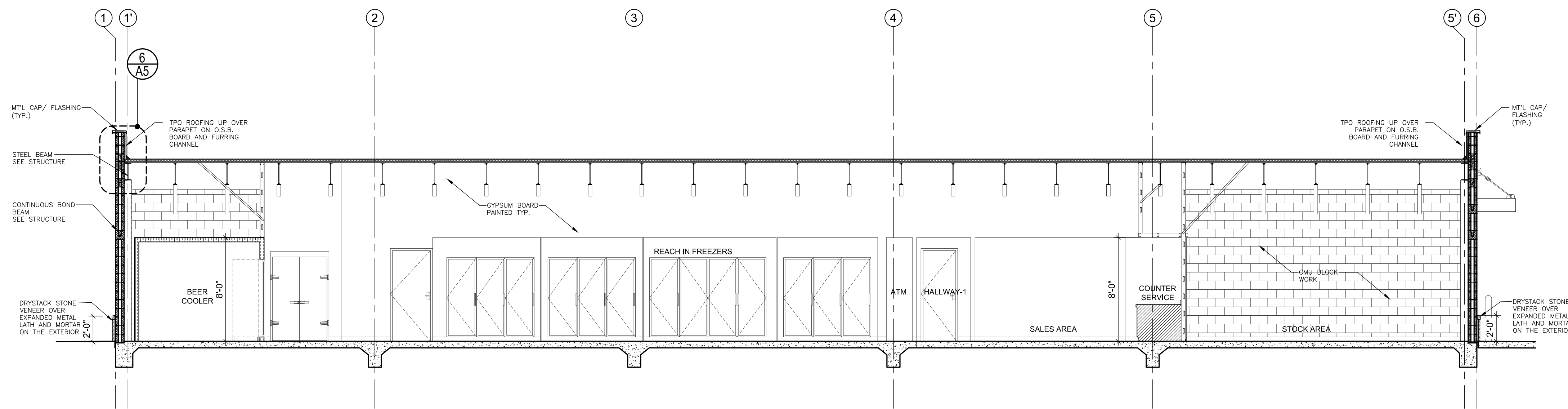




1 SECTION A-A



3 SECTION C-C



2 SECTION B-B

SCALE : 3/16" = 1' - 0"

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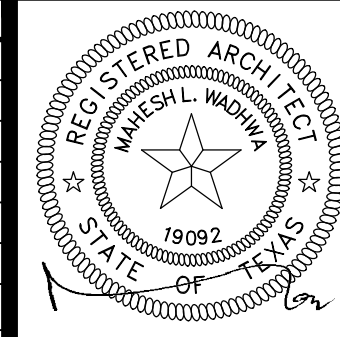
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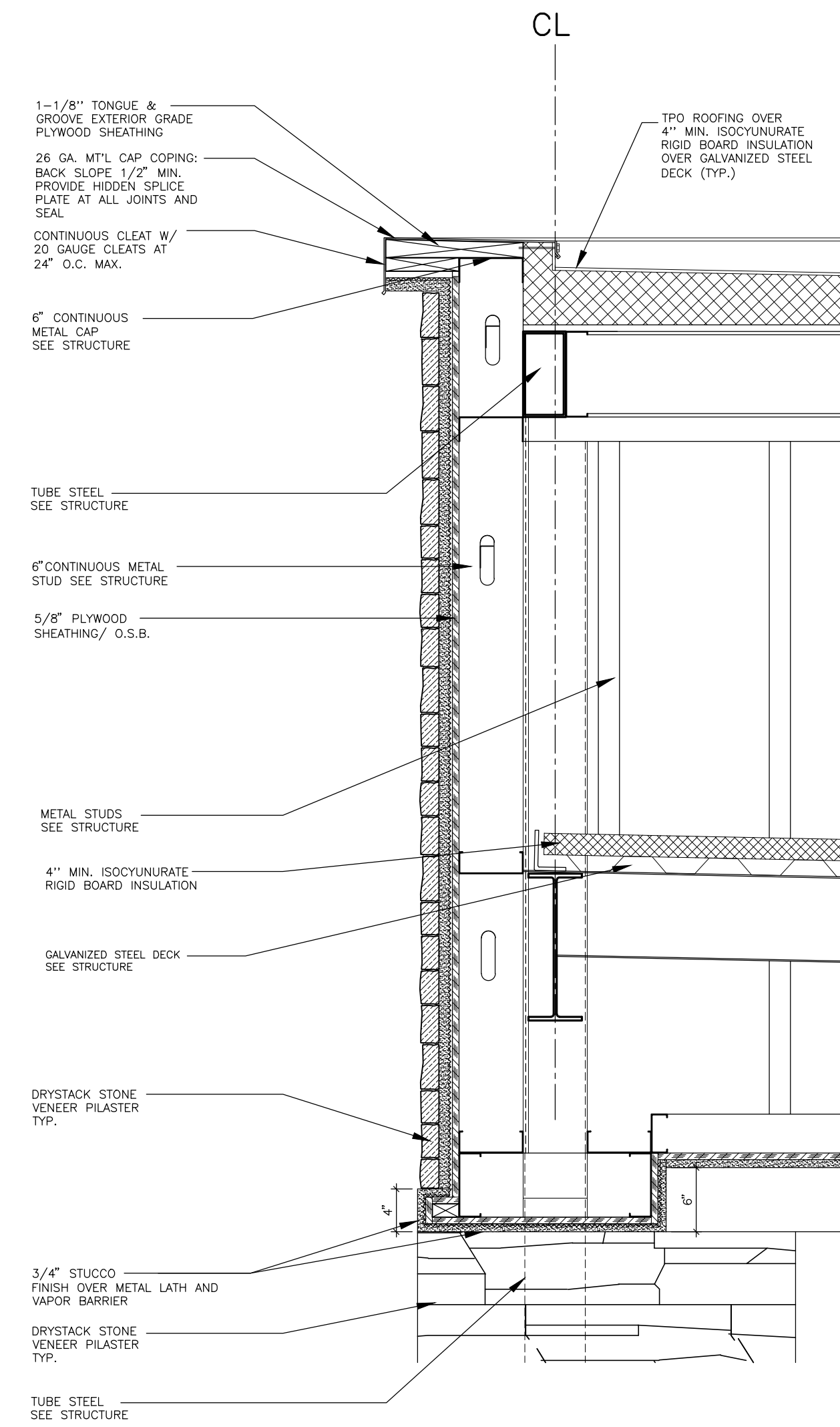
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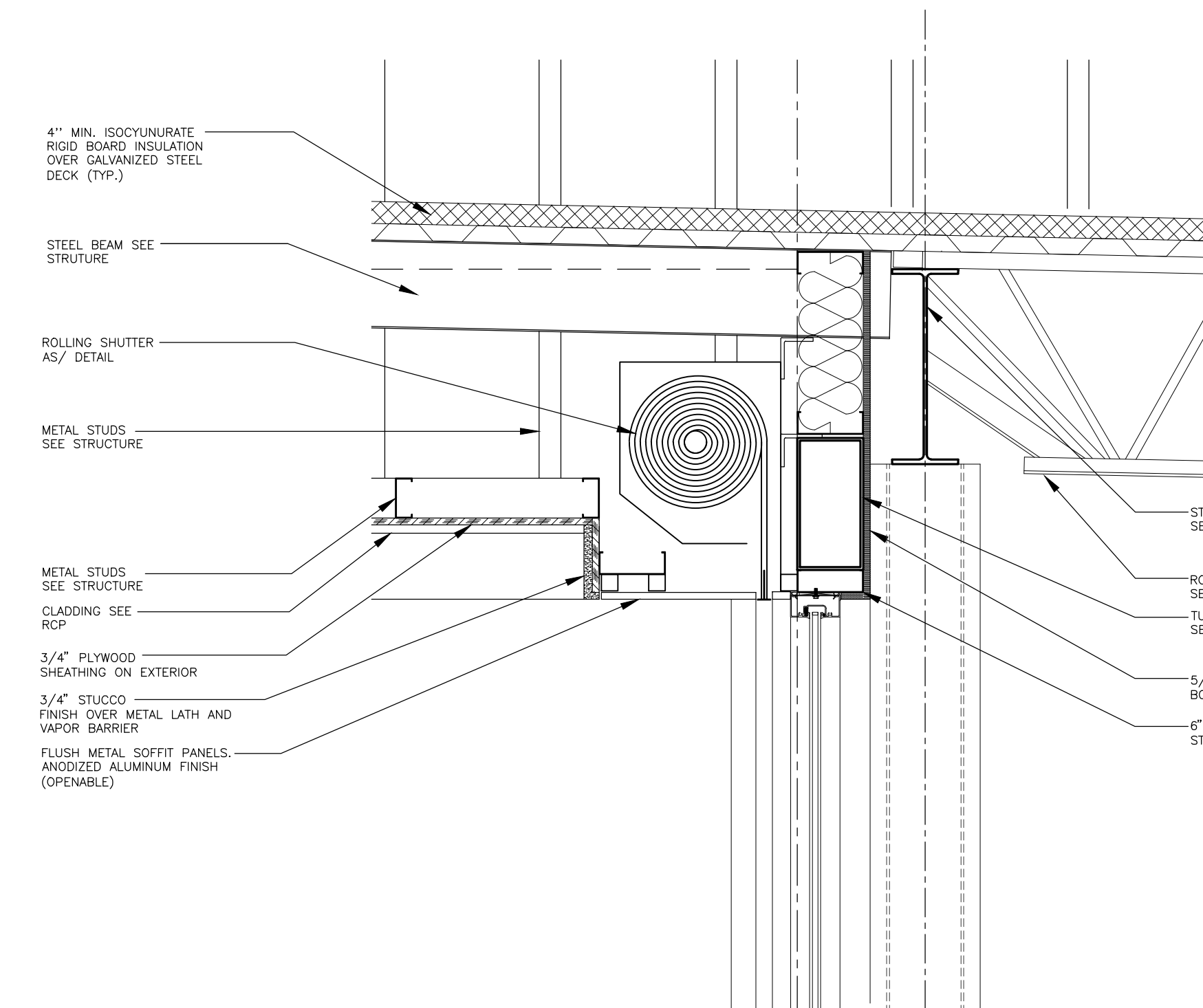
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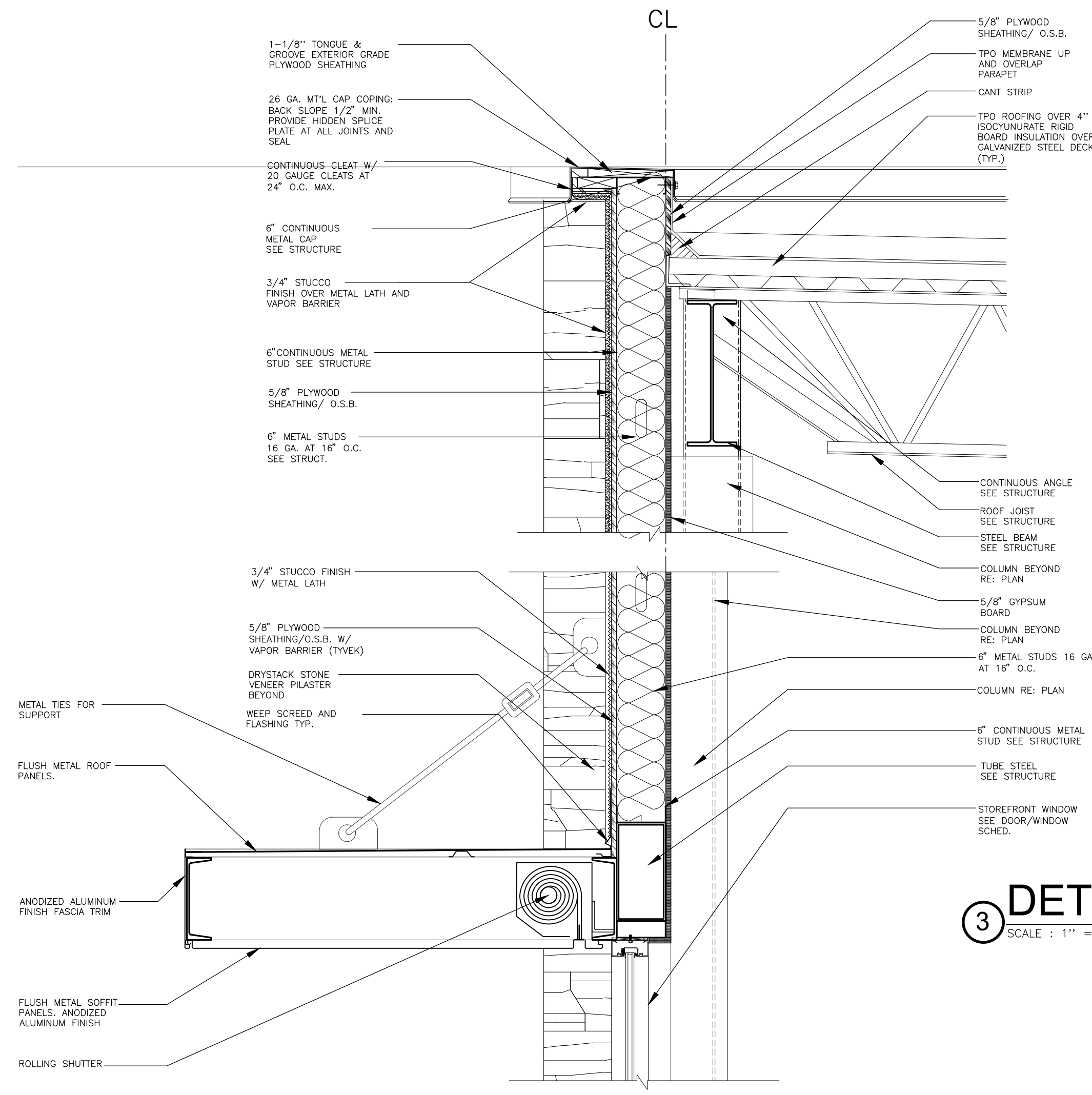




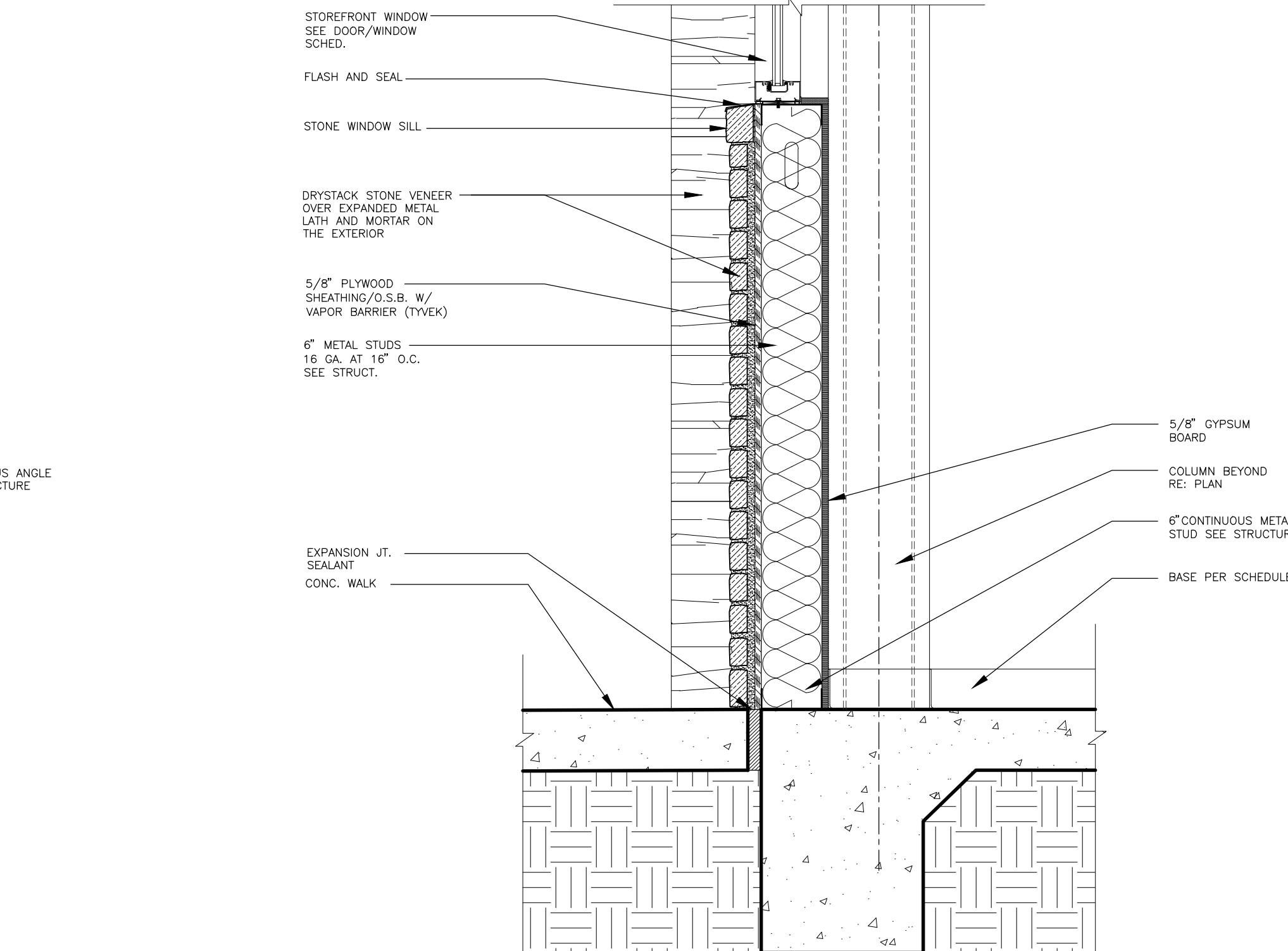
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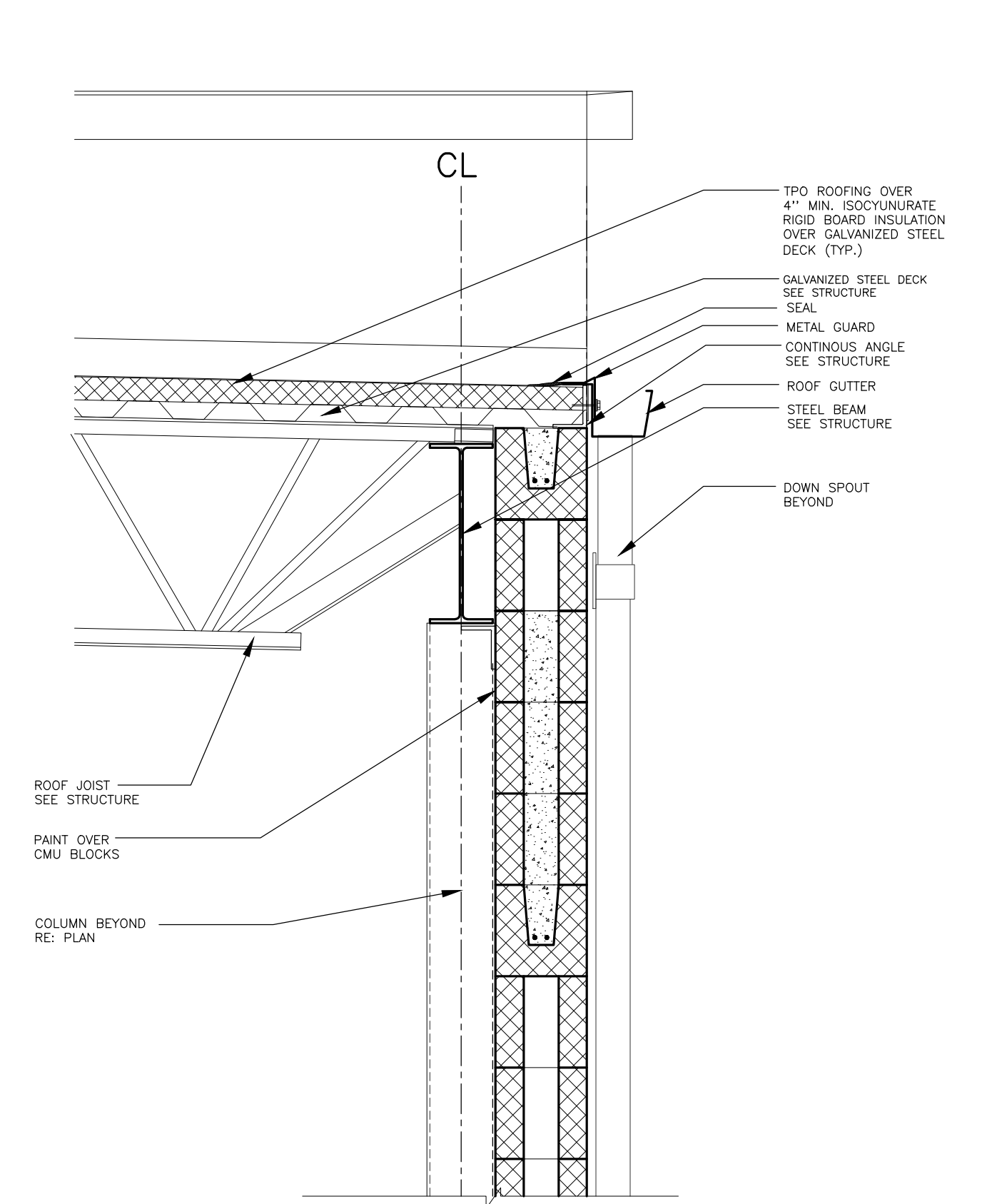
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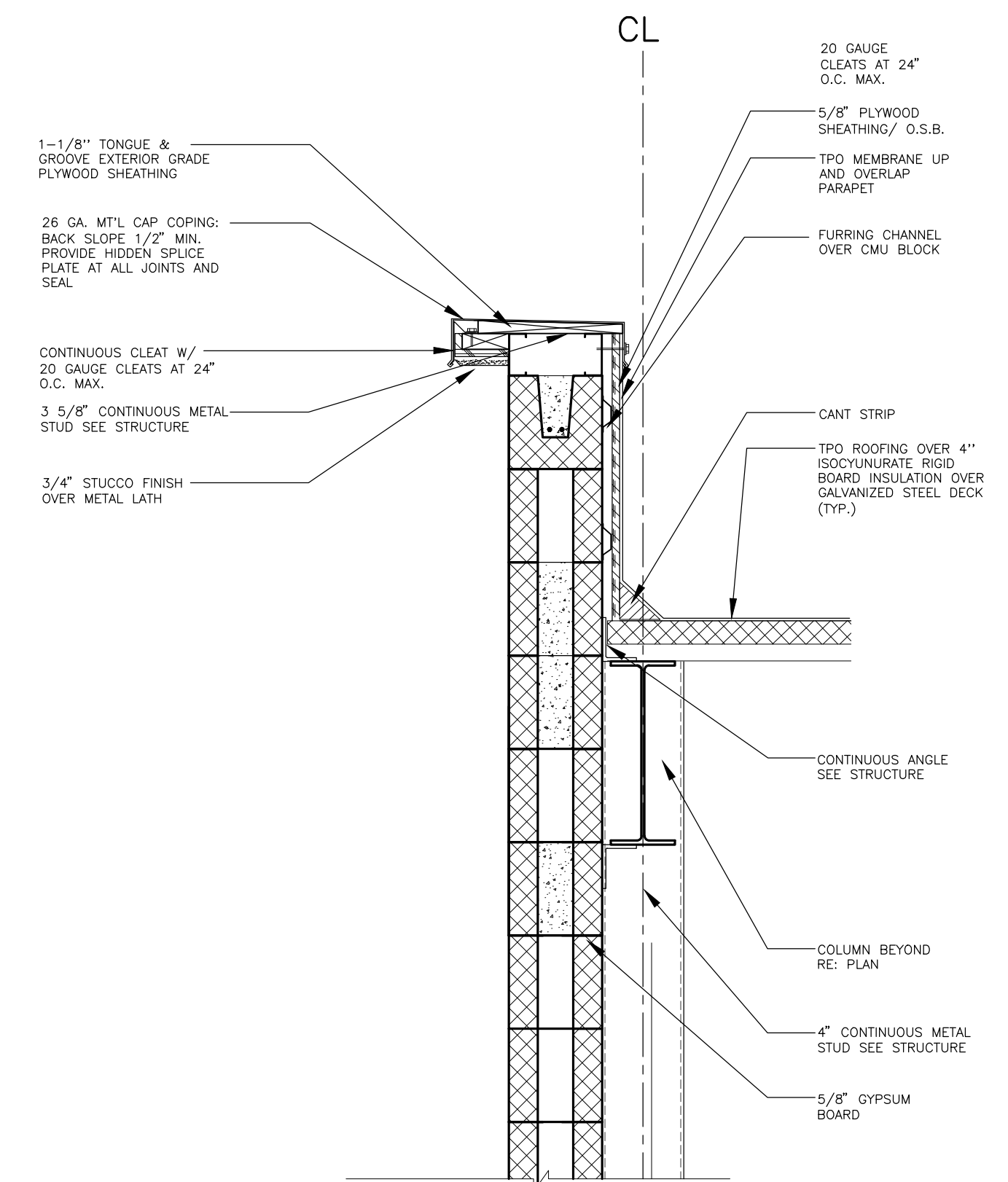
③ DETAIL  
SCALE : 1" = 1'-0"



④ DETAIL  
SCALE : 1" = 1'-0"



⑤ DETAIL  
SCALE : 1" = 1'-0"



⑥ DETAIL  
SCALE : 1" = 1'-0"

SCALE : 1" = 1'-0"

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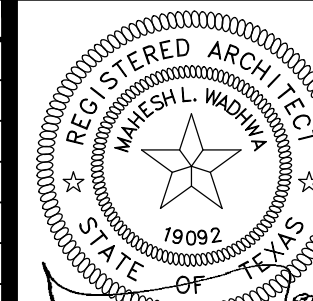
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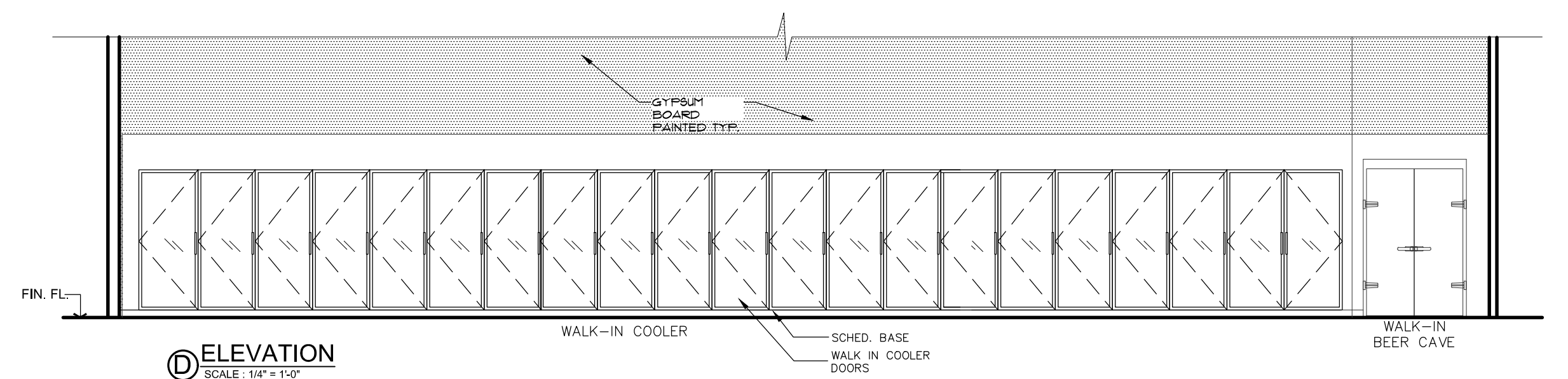
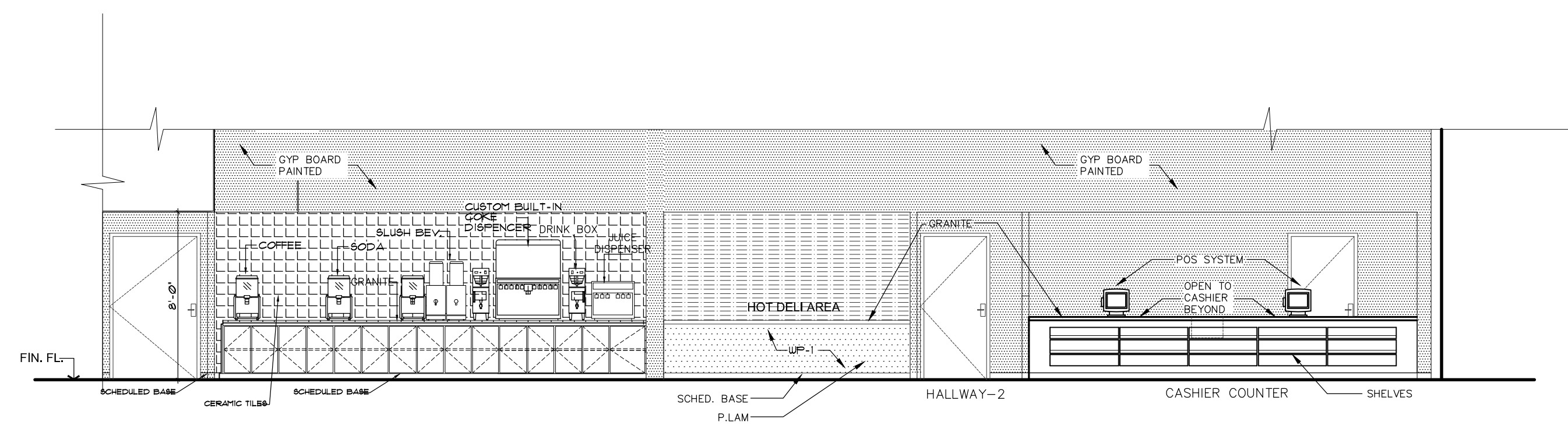
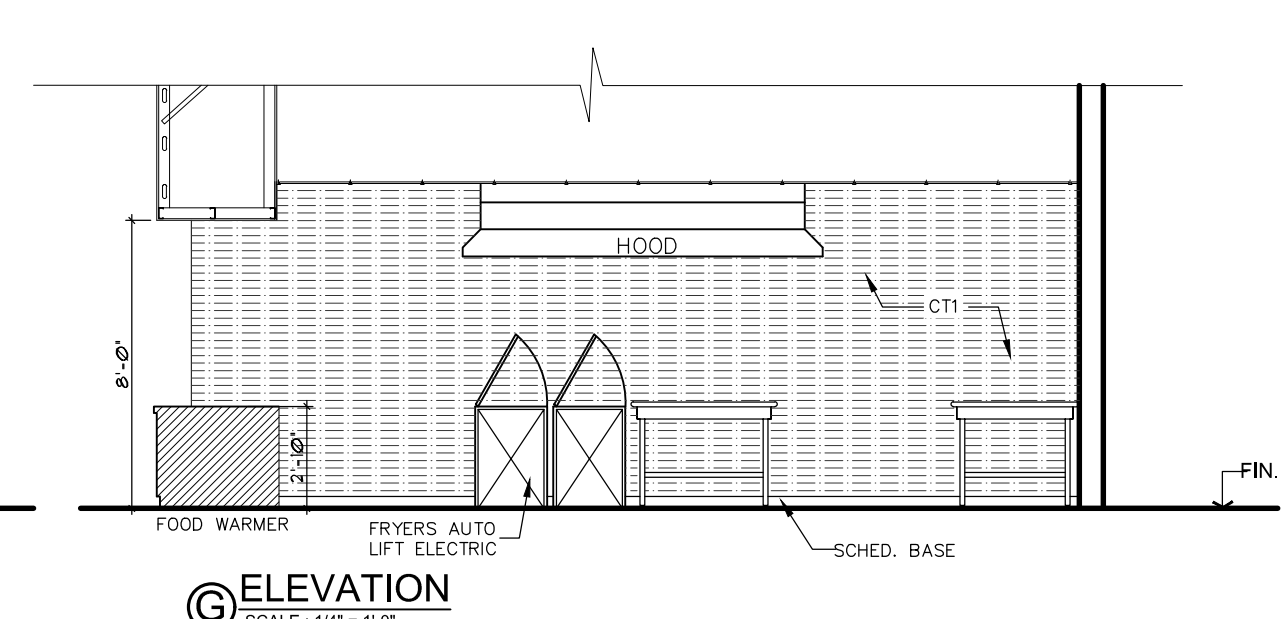
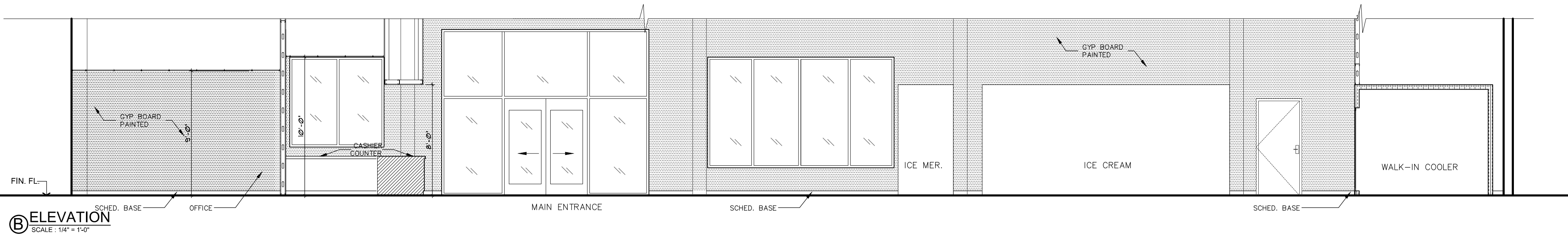
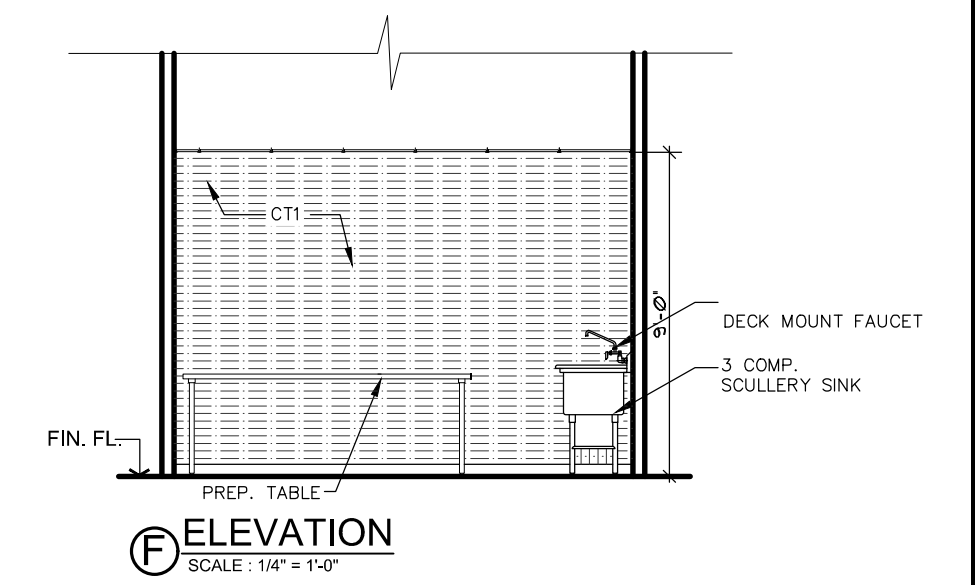
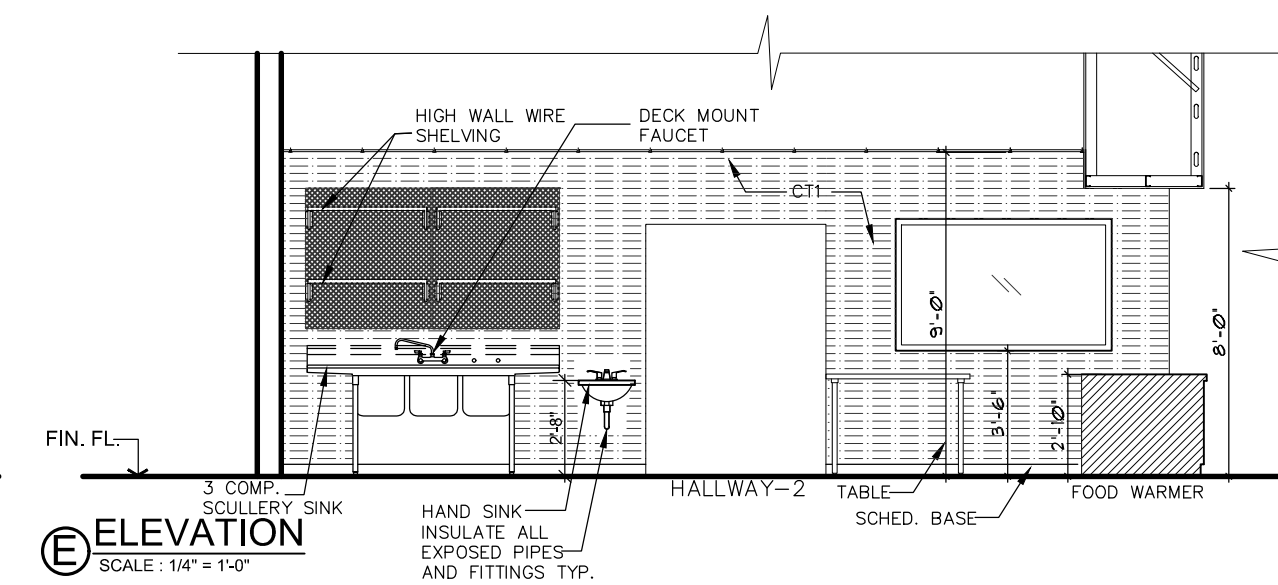
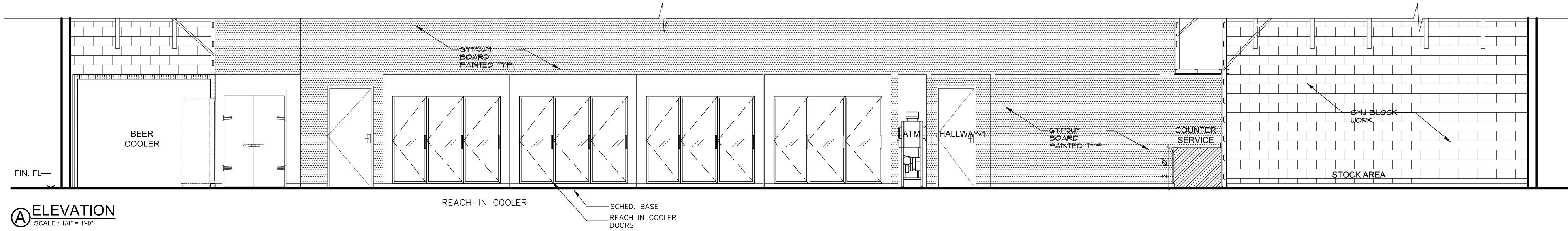
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SHEET NO.

A5

FOOD MART - BAYSHORE





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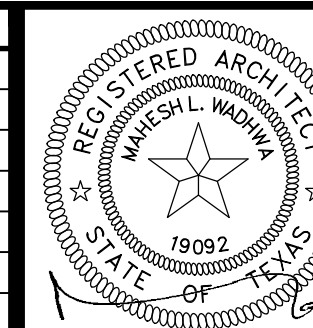
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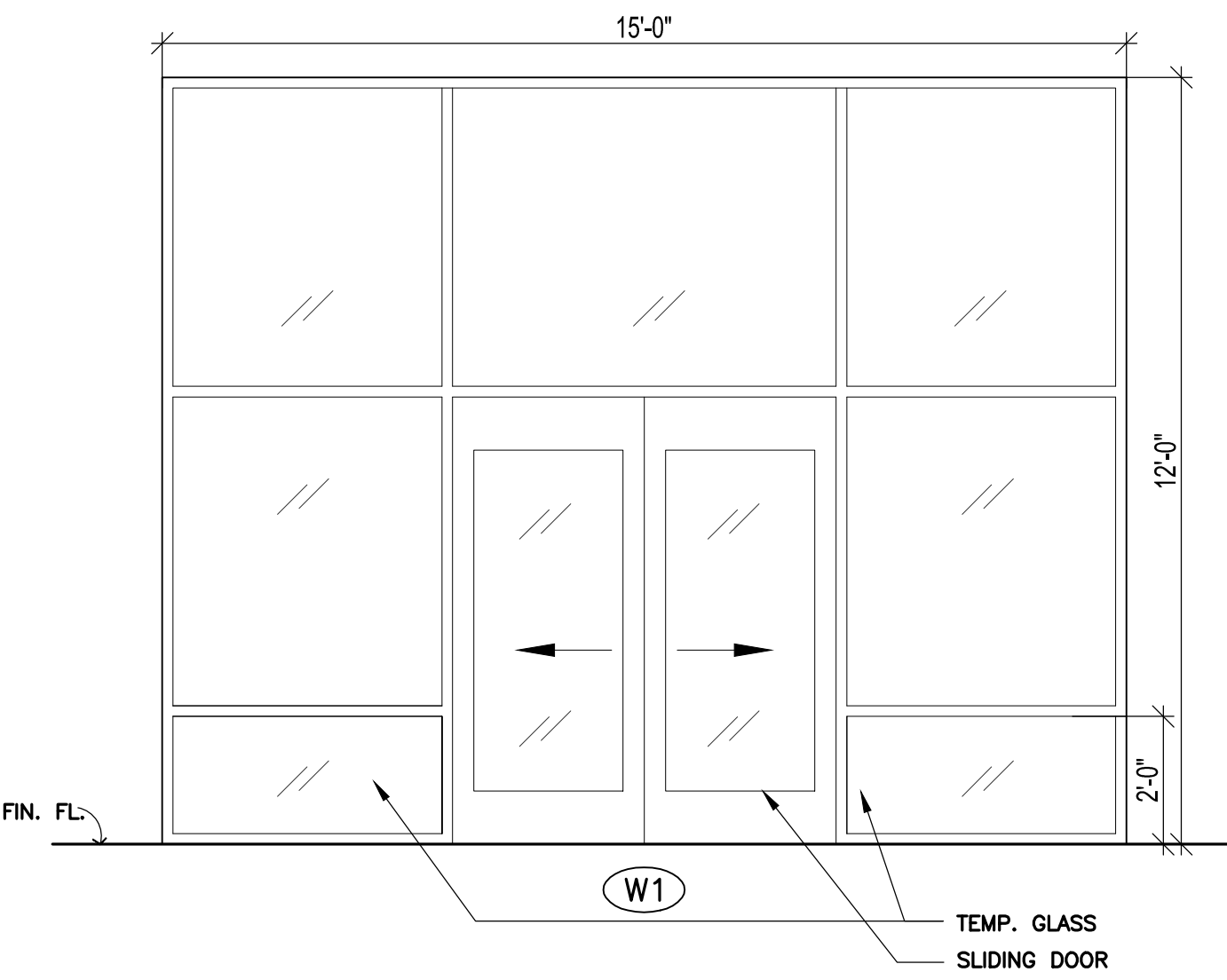
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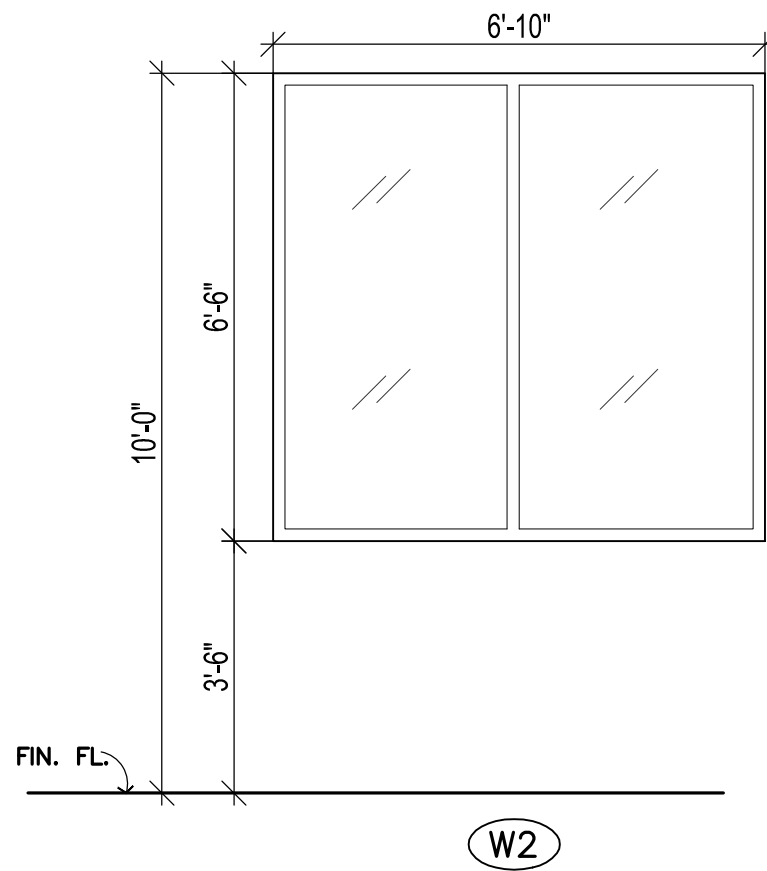
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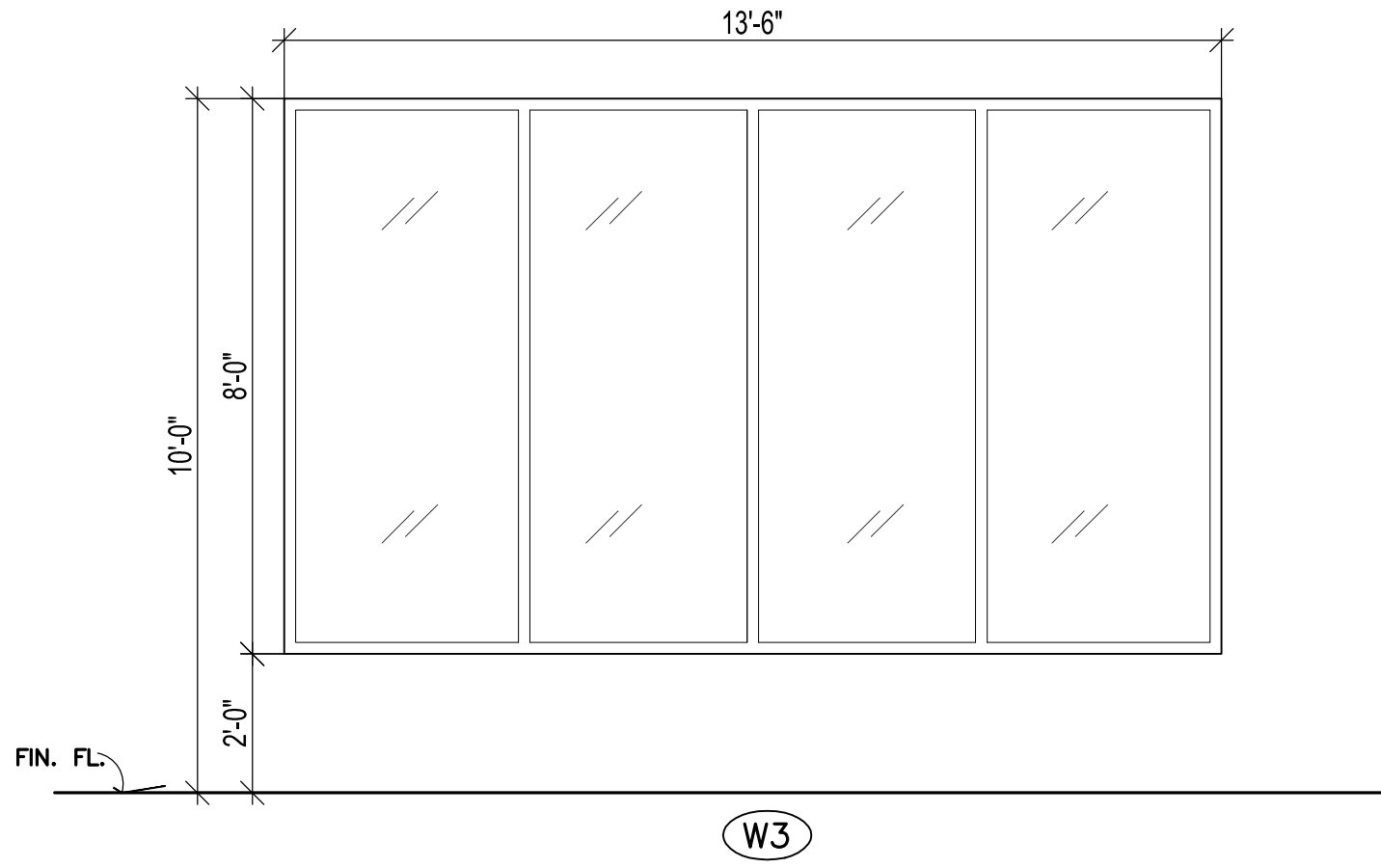




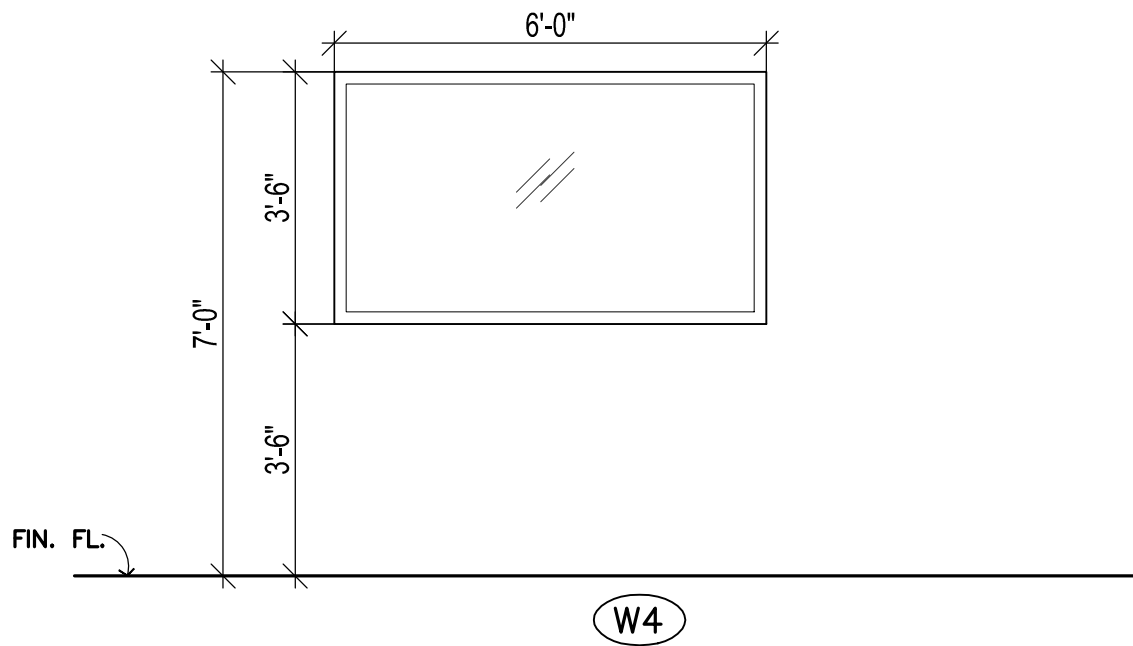
1 STORE FRONT WINDOW TYPES - EXTERIOR  
SCALE : 1/16" = 1'-0"



W2



W3



W4

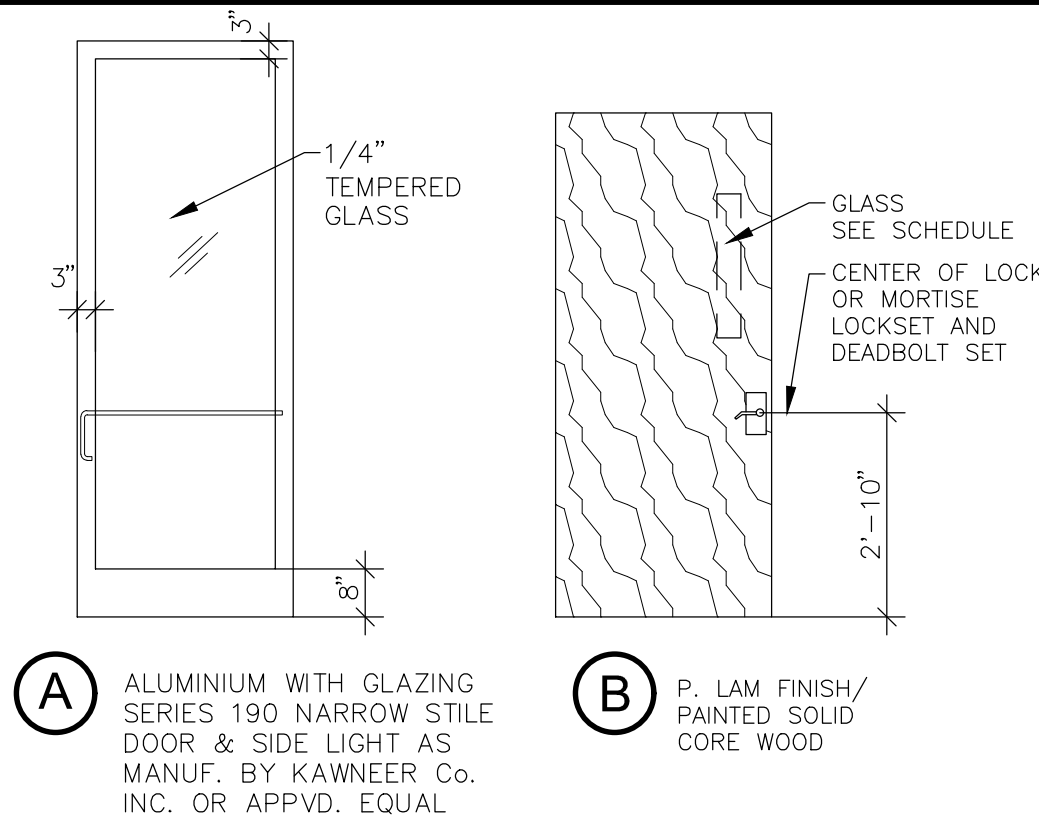
1 STORE FRONT WINDOW TYPES - INTERIOR  
SCALE : 1/16" = 1'-0"

NOTES:

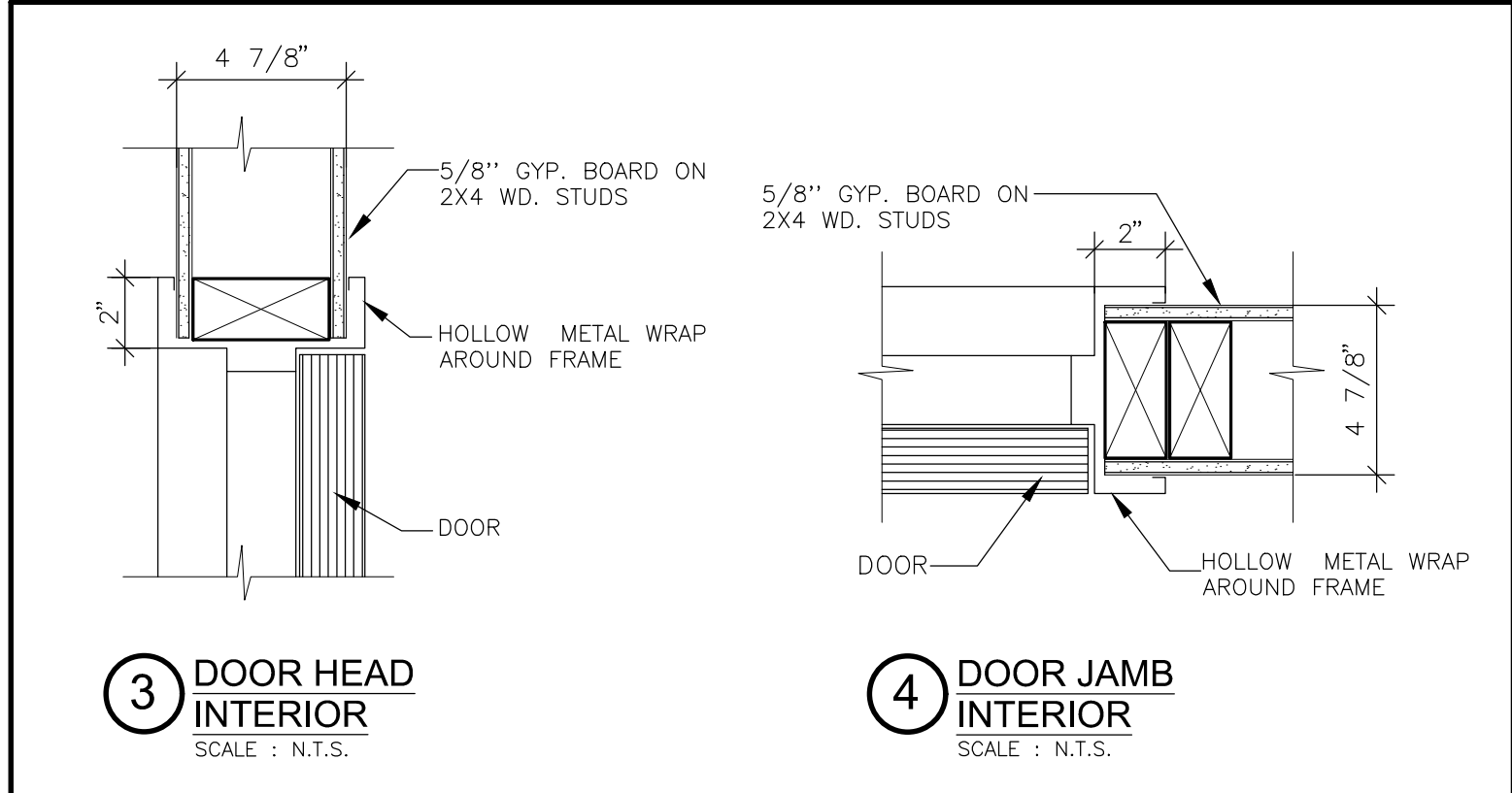
1. ALL EXTERIOR STOREFRONT FRAMES SHALL BE CLEAR ANODIZED ALUMINIUM FINISH W/ THERMAL BREAK.
2. FIELD VERIFY DIMENSIONS BEFORE FABRICATION OF STOREFRONT.
3. STOREFRONT GLASS SHALL BE DOUBLE PANE WITH LOW-E GAS, GREY TINTED GLASS WITH SHGC 0.25 AND PF 0.22.
4. REFER SHEET A2 AND A2.1 FOR EXTERIOR ELEVATIONS FOR STOREFRONT MULLIONS , ETC.

DOOR SCHEDULE

	No.	SIZE	DESCRIPTION	FRAME	FIRE RATING	HDWE. & REMARKS
(A)	1	PR -3'-0" X 7'-0"	GLASS DOOR NARROW STYLE	ALUMINIUM ANODIZED	-	DOUBLE CYL. LOCK, CLOSER, STOP, STD. HDWE. (LABEL ON DOOR "THIS DOOR SHALL REMAIN UNLOCKED DURING BUSINESS HOURS")
(A)	2	PR -3'-0" X 9'-0"	SLIDING GLASS DOOR NARROW STYLE	ALUMINIUM ANODIZED	-	SLIDING DOOR -PR. 3'X 7' ALUMINIUM STORE FRONT AUTOMATIC GLASS DOOR HARDWARE BY MANUFACTURE
(C)	3	3'-0"X7'-0"X1 3/4"	INSULATED HM DOOR 20 GA. PAINTED BY A.J. AMERICAN DOOR	WELDED STEEL	-	STD.HDWE., THRESHOLD, WEATHERSTRIP, CLOSER BOTT. SWEEP & HEAD DRIP TRIM W/ PANIC HDWE.
(B)	4	4'-0"X7'-0"X1 3/4"	INSULATED HM DOOR 20 GA. PAINTED BY A.J. AMERICAN DOOR	WELDED STEEL	-	STD.HDWE., THRESHOLD, WEATHERSTRIP, CLOSER BOTT. SWEEP & HEAD DRIP TRIM W/ PANIC HDWE.
(B)	5	4'-0"X7'-0"X1 3/4"	S.C. WOOD DOOR PLASTIC LAMINATE FINISH	WELDED STEEL	-	LEVER LOCK SET, STOP, STD. HDWE., CLOSER UNDER CUT 1"
(D)	6	2'-6"X5'-0"X1 3/4"	PTD WOOD LOUVERED DOOR	WELDED STEEL	-	LEVER PRIVACY LOCK SET, STOP, ROBE HOOKS.
(D)	7	3'-0"X5'-0"X1 3/4"	PTD WOOD LOUVERED DOOR	WELDED STEEL	-	LEVER PRIVACY LOCK SET (ADA APPVD.), CLOSER, STOP, ROBE HOOKS. H.C. ACCESS SYMBOL "MEN" / "WOMEN", ADA AFR.,
(B)	8	3'-0"X7'-0"X1 3/4"	S.C. WOOD DOOR PLASTIC LAMINATE FINISH	WELDED STEEL	-	LEVER LOCK SET, STOP, STD. HDWE., CLOSER, S.S. KICK PLATE ,UNDER CUT 1"
(B)	9	3'-0"X7'-0"X1 3/4"	S.C. WOOD DOOR PLASTIC LAMINATE FINISH	WELDED STEEL	-	LEVER LOCK SET, STOP, STD. HDWE., 4 X 24 GLASS PANEL, CLOSER, ST. STL KICK PLATE
(B)	10	3'-0"X7'-0"X1 3/4"	S.C. WOOD DOOR PAINTED	WELDED STEEL	-	LEVER LOCK SET, STOP, STD. HDWE., ST. STL KICK PLATE
(C)	11	3'-0"X7'-0"X1 3/4"	INSULATED HM DOOR 20 GA. PAINTED BY A.J. AMERICAN DOOR	WELDED STEEL	-	STD.HDWE., THRESHOLD, WEATHERSTRIP, BOTT. SWEEP & HEAD DRIP TRIM. PROVIDE 24"W X 16"H LOUVERS
(A)	12	PR -3'-0" X 4'-0"	S.C. WOOD	WELDED STEEL	-	LATCH SET,STD.HARDWARE
(B)	13	PR -2'-6"X5'-0"X1 3/4"	S.C. WOOD DOOR PLASTIC LAMINATE FINISH	WELDED STEEL	-	LEVER LOCK SET, STOP, STD. HDWE., CLOSER



2 DOOR TYPES  
SCALE : N.T.S.



3 DOOR HEAD INTERIOR  
SCALE : N.T.S.

4 DOOR JAMB INTERIOR  
SCALE : N.T.S.

NOTES :

1. ALL DOORS SHALL HAVE LEVER HANDLES OR EQUIVALENT MOUNTED NOT MORE THAN 42" A.F.F. EXCEPT AT ACCESSIBLE AREAS WHICH SHALL BE MOUNTED BETWEEN 34" & 36" A.F.F. MAXIMUM OPENING FORCE FOR EXTERIOR DOORS SHALL NOT EXCEED 8.5 POUNDS & 5 POUNDS FOR INTERIOR.
2. FINISH HARDWARE TO BE SATIN NICKEL FINISH
3. PROVIDE DOOR STOPS AT ALL DOORS.
4. ALL EXTERIOR DOORS SHALL HAVE DOOR BOTTOM SWEEP "HAGER 778" & HEAD DRIP TRIM.

SCALE : AS NOTED

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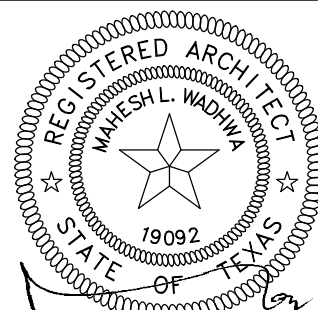
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NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

ISSUE

06-12-18 I.F.P.



DATE: 06/12/2018.

DOORS & WINDOWS SCHEDULES

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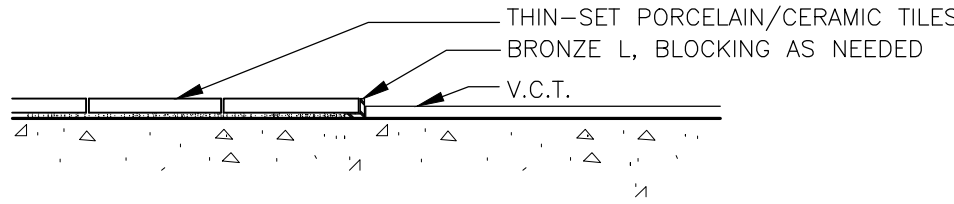
FOOD MART - BAYSHORE

ROOM FINISH SCHEDULE														LEGEND
ROOM NAME	FLOOR	BASE	WALL MATERIAL				WALL FINISH				CEILING	HEIGHT	REMARKS	
			NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST				
SALES	P.T.	4" P.T.	B	B	B	B	P	P	P	P	EX.	—		B 5/8" GYP. BD.
CASHIER	P.T.	4" P.T.	B	B	B	B	P	P	P	P	ALWD	10'—0"		P.T. PORCELAIN TILE
OFFICE	V.C.T.	4" RUBBER	B	B	B	B	P	P	P	P	A.C.T.	9'—0"		P PAINT
HALLWAY—1	P.T.	4" P.T.	B	B	B	B	P	P	P	P	T.C.T.	9'—0"		ST. STORE FRONT
HALLWAY—2,3	V.C.T.	4" RUBBER	B	B	B	B	P	P	P	P	A.C.T.	9'—0"		V.C.T. VINYL COMPOSITION TILE 1/8"
STOCK AREA	S.C.	4" RUBBER	B	B	B	B	P	P	P	P	VACT	9'—0"		EX. EXPOSED STRUCTURE
MEN RESTROOM	P.T.	4" P.T.	B	B	B	B	P.T.	P.T.	P.T.	P.T.	GYP. BD.	9'—0"	P.T. FULL HIGH ALL WALLS	S.C. SEALED CONCRETE
MOP SINK AREA	P.T.	4" P.T.	B	B	B	B	P.T.	P.T.	P.T.	P.T.	GYP. BD.	9'—0"		Q.T. QUARRY TILE
WOMEN RESTROOM	P.T.	4" P.T.	B	B	B	B	P.T.	P.T.	P.T.	P.T.	GYP. BD.	9'—0"	P.T. FULL HIGH ALL WALLS	T.C.T. LAY—IN REGULAR 2' X 2' CLG. TILES
MAINTENANCE/ STORAGE	S.C.	4" RUBBER	B	B	B	B	P	P	P	P	VACT	9'—0"		A.C.T. LAY—IN ACOUSTIC 2' X 4' CLG. TILES
														V.C.T. VINYL COMPOSITION TILE 1/8"

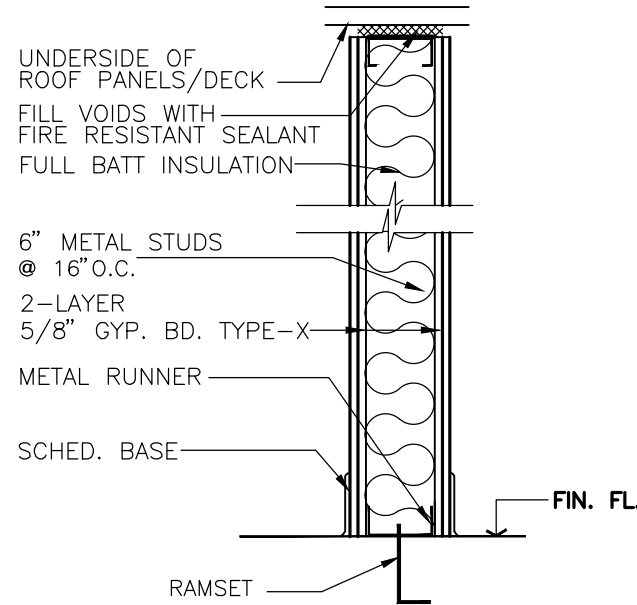
														V.C.T. VINYL COMPOSITION TILE 1/8"
														VACT VINYL TILE FACED LAY-IN 2'X4' WASHABLE COLOR — WHITE
														FRP FIBER REINFORCED PLASTIC
HOT DELI AREA	F-3	B-1	CT-1	CT-1	CT-1	CT-1	CT-1	CT-1	CT-1	CT-1	VACT	9'-0"		ALWD ALUMINUM CEILING PANEL WOOD GRAIN FINISH
														SWS STAIN WOOD SLATS EXTERIOR TILE

NOTES :
1. ALL PAINTS SHALL BE SEMIGLOSS SATIN FINISH, "SHERWIN WILLIAM" U.N.O.
2. 2'X2' LAY IN ACOUSTIC TILES SHALL BE "ARMSTRONG-ULTIMA" OR APPROVED EQUAL, FINE TEXTURE, SQUARE LAY IN REGULAR, W/ 15/16" EXPOSED T-GRID.
3. 2'X4' LAY IN ACOUSTIC TILES SHALL BE "ARMSTRONG" OR APPROVED EQUAL, FINE TEXTURE.
4. VINYL COMPOSITION TILE SHALL BE "ARMSTRONG" STANDARD EXCELLON OR APPROVED EQUAL.
5. PORCELAIN FLOOR TILES SHALL BE "DAL-TILE" NON-SKID OR APPROVED EQUAL.
6. ALL P.T. BASE SHALL BE COVED.
7. COLOR PANELS SHALL BE SUBMITTED TO WADHWA AND ASSOCIATES, INC./ OWNER FOR APPROVAL.

F-3 6" RED QUARRY TILE FINISH — RED MFR. — EMSER
B-1 4" QUARRY TILE W/ 3/8" R. BASE FINISH — BRICK SMOOTH MFR. — EMSER
CT-1 AREA GLOSSY WHITE 4.25X10 MFR. — EMSER TILE FINISH — W82AREAWH0410  GROUT: MAPEI — 47 CHARCOAL GROUT LINES =114 "AT ALL LOCATIONS
WP-1 RECLAIMED WOOD SLATS FINISH — SPECS AND SUPPLIER TBA MFR. — QUALSERV



1 PORCELAIN/CERAMIC TILES TO V.C.T. TRANSITION DETAIL  
SCALE : N.T.S.



A TYP. 2 HR FIRE RATED WALL

2 PARTITION TYPES  
SCALE : N.T.S.

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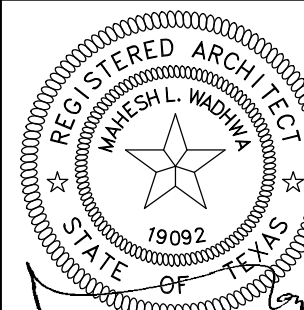
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902 E. BAYSHORE,  
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### ISSUE

06-12-18 I.F.P.



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### ROOM FINISH SCHEDULE

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Houston, Texas 77055 Fax: (713) 465-2391

### R E V I S I O N S

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SCALE : AS NOTED

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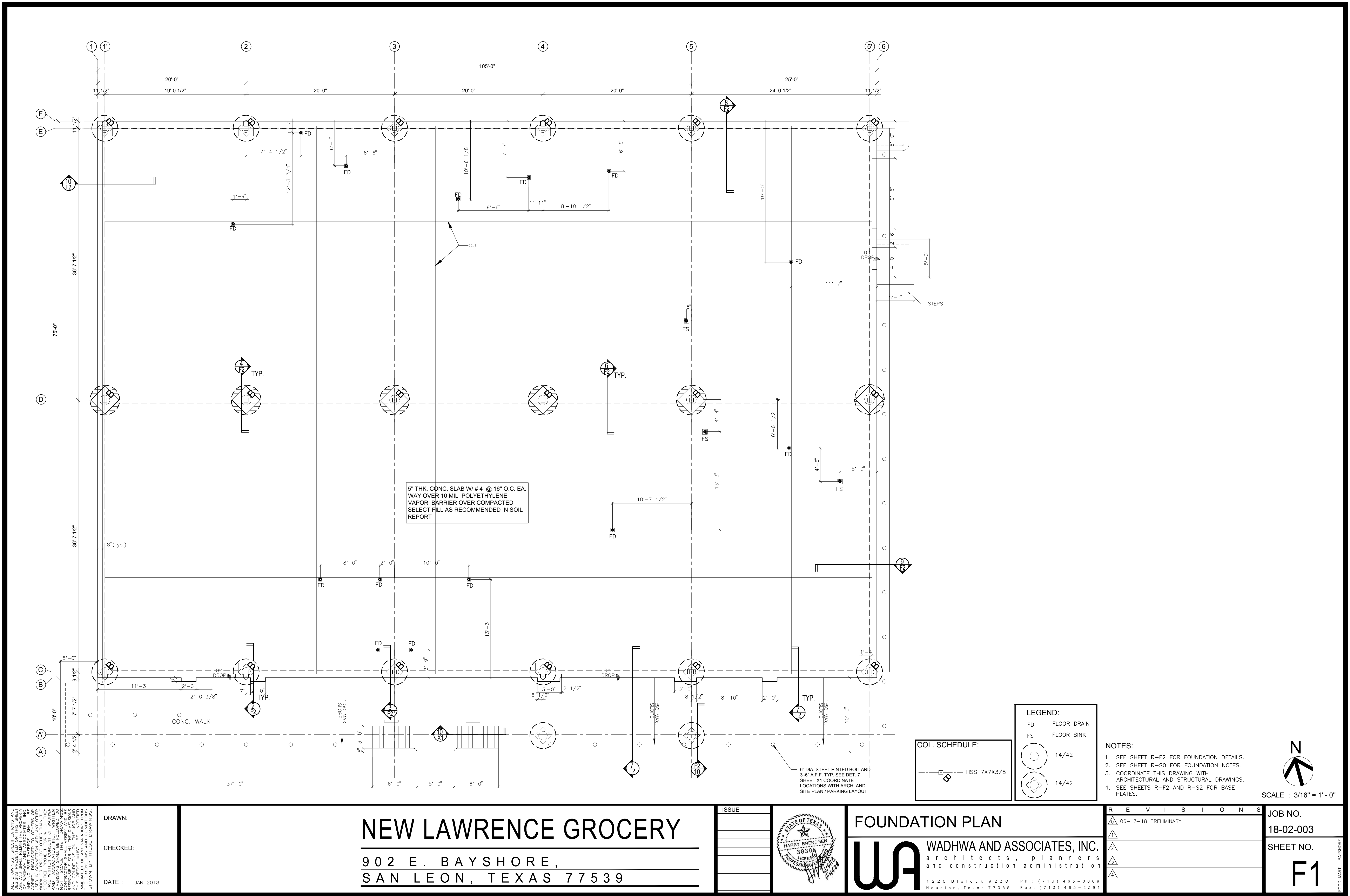
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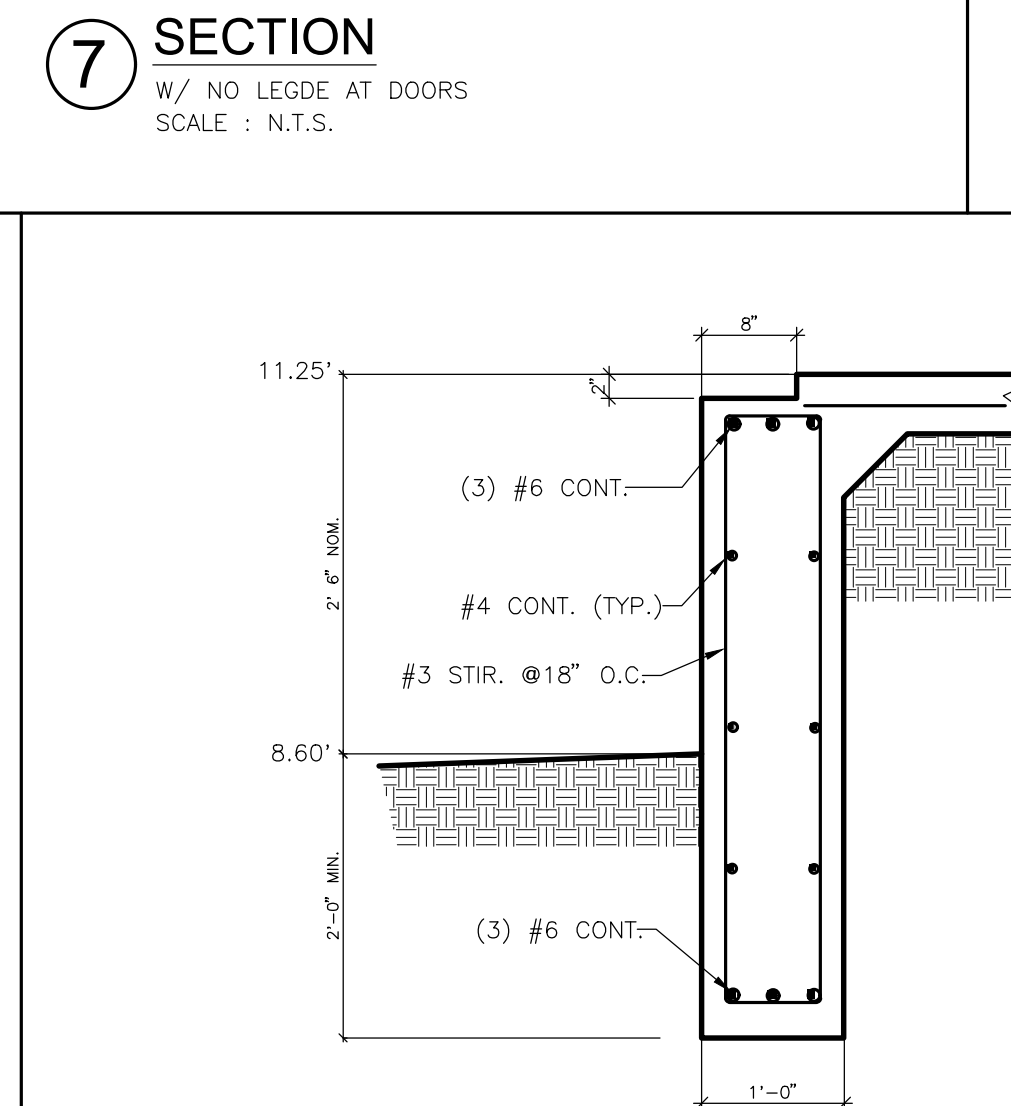
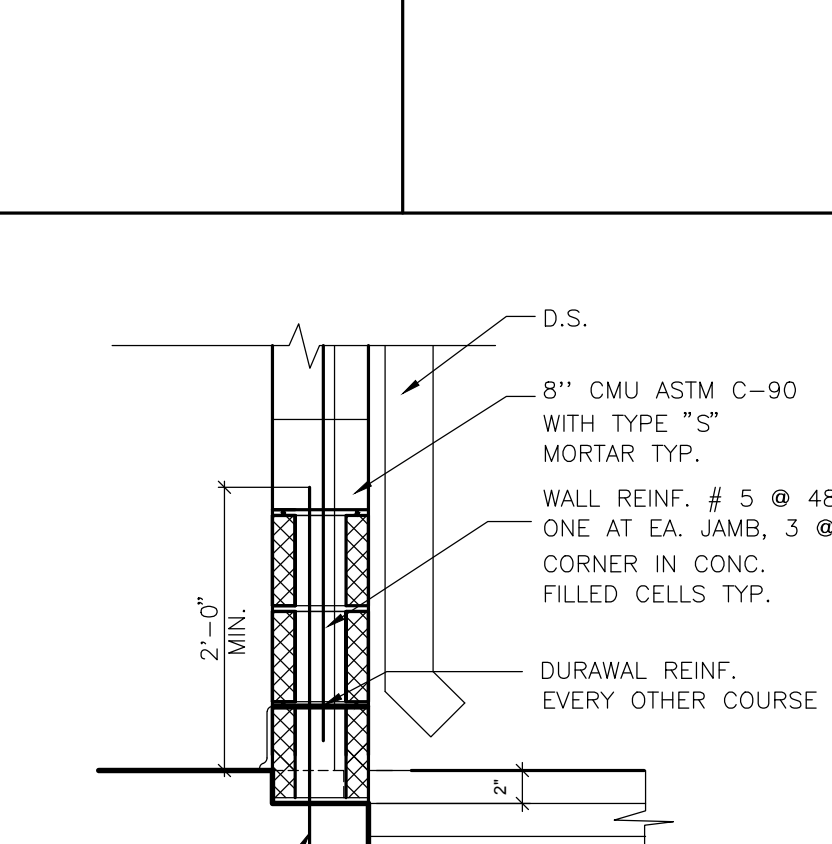
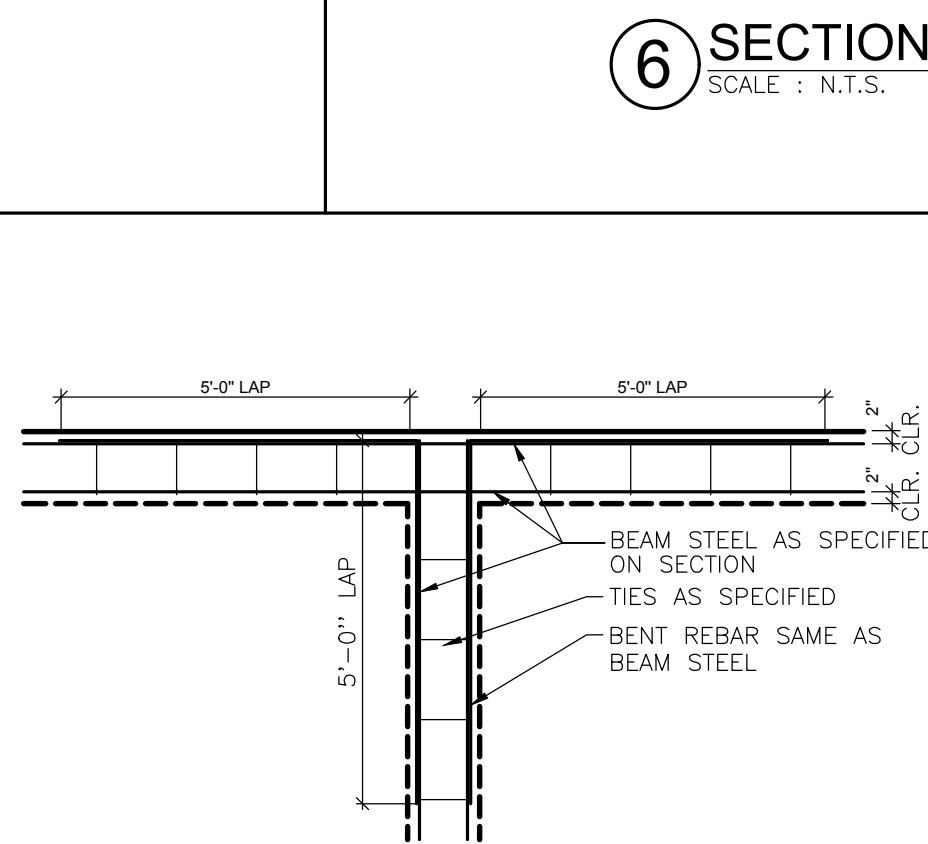
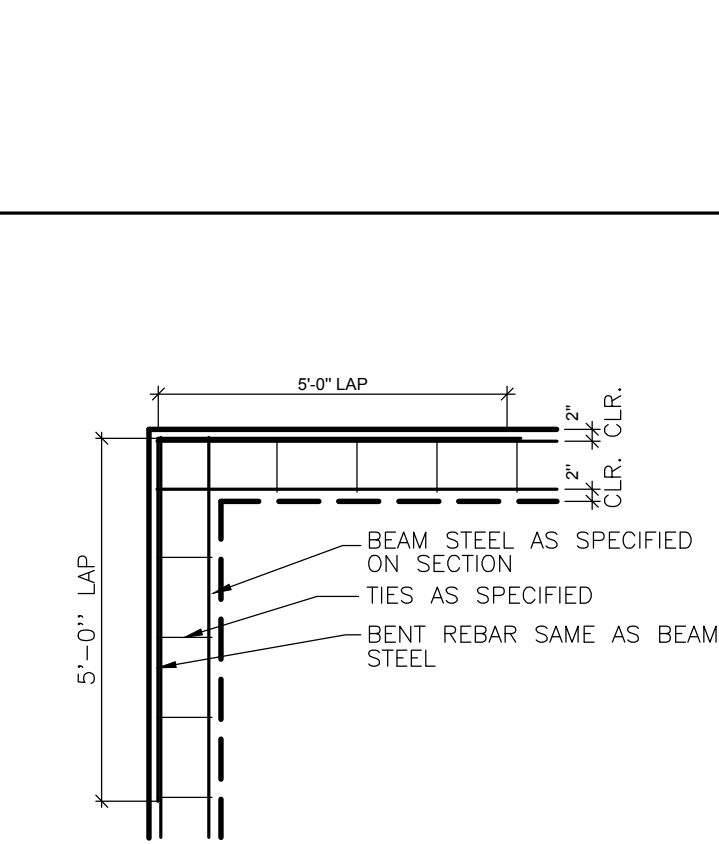
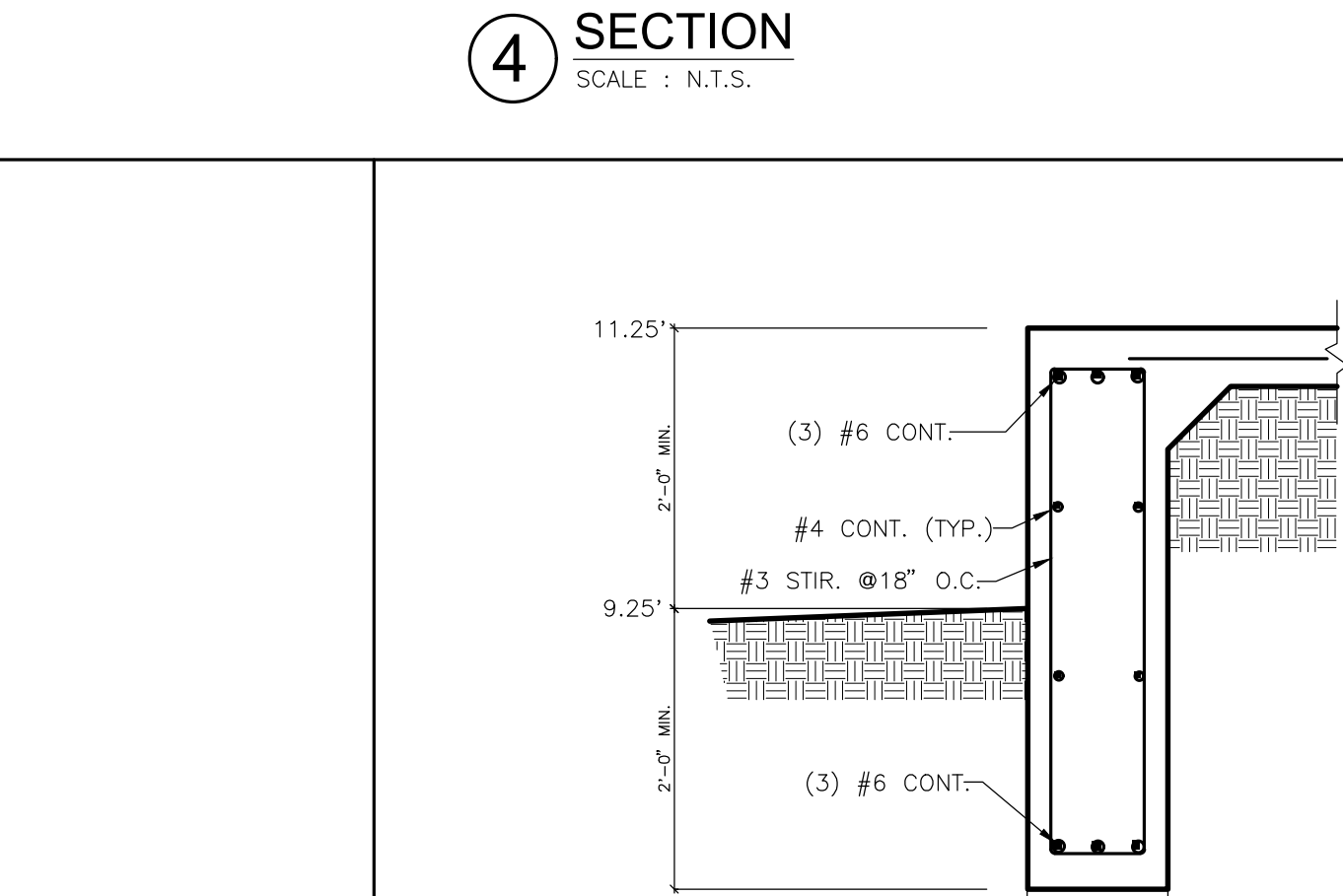
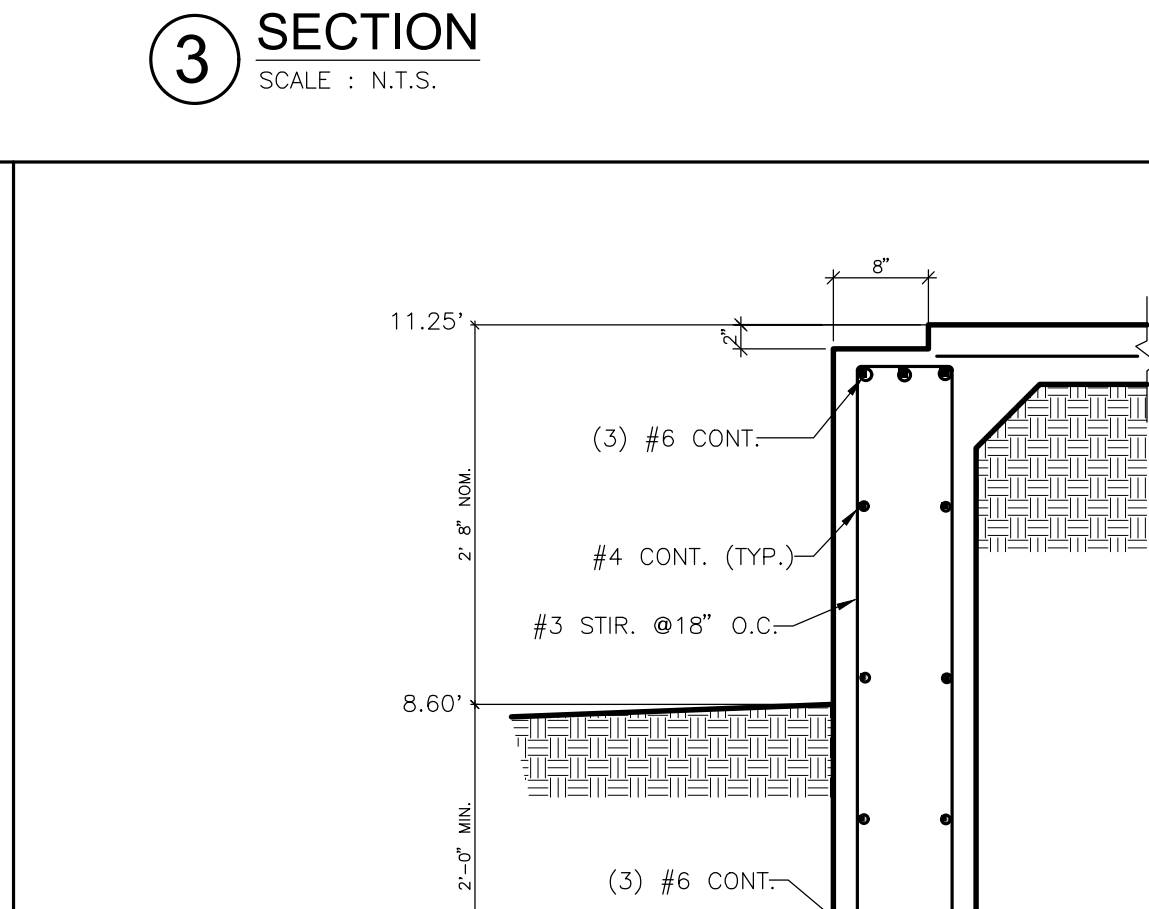
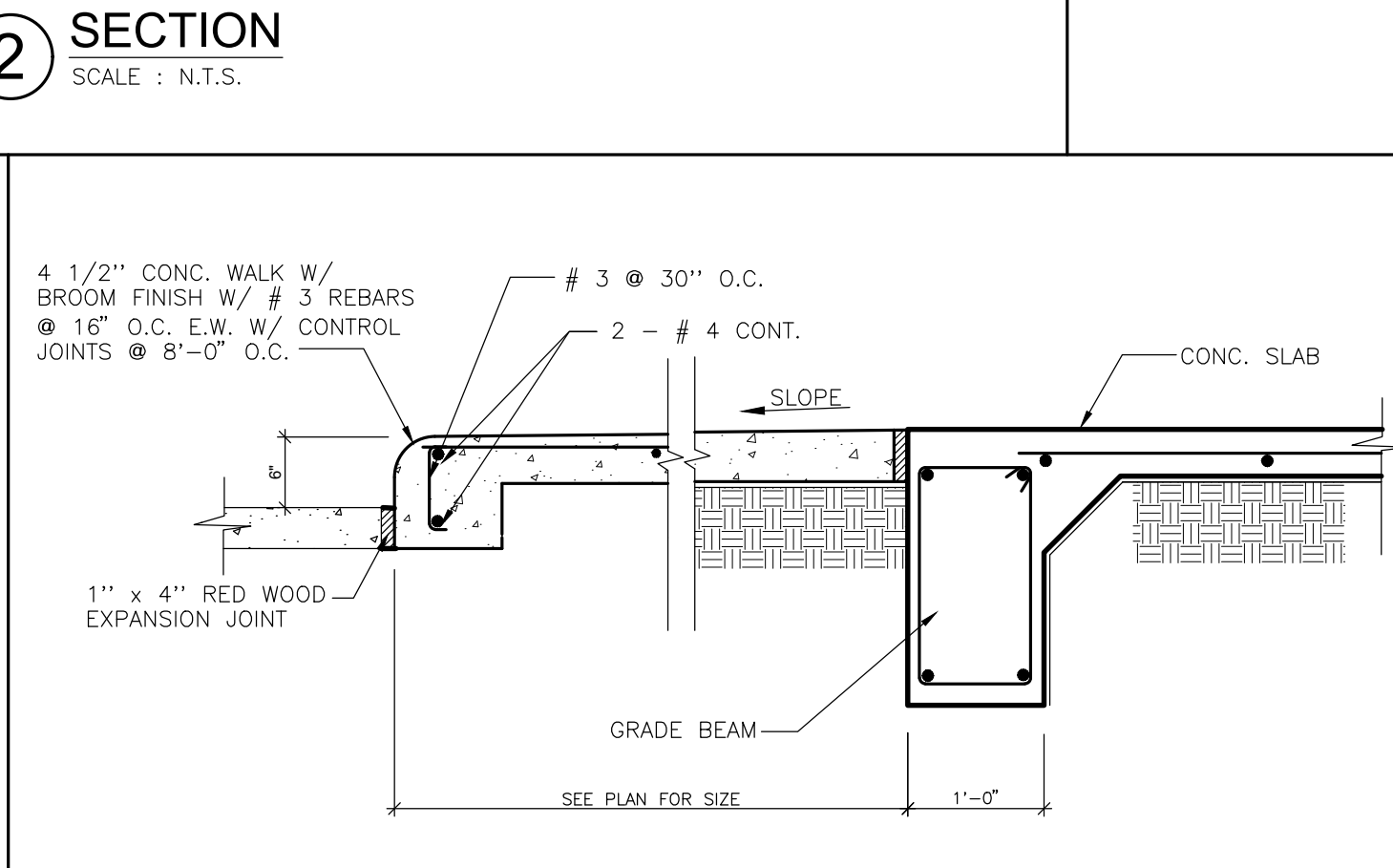
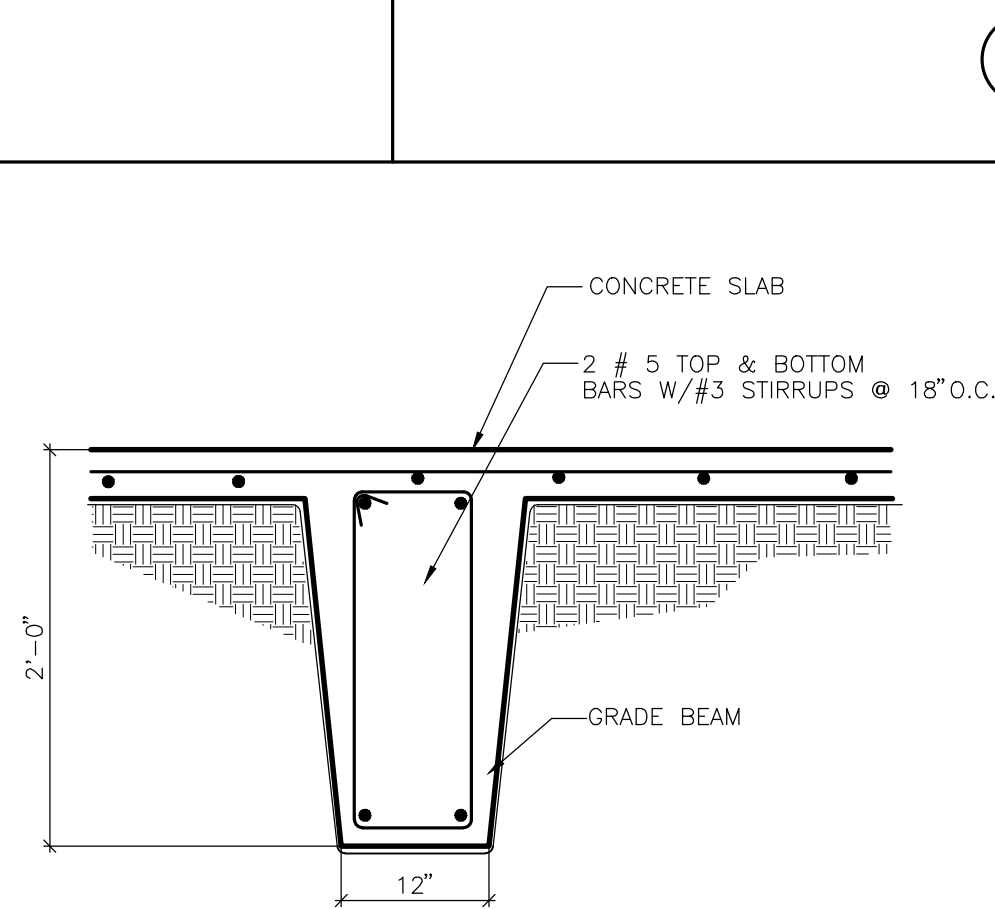
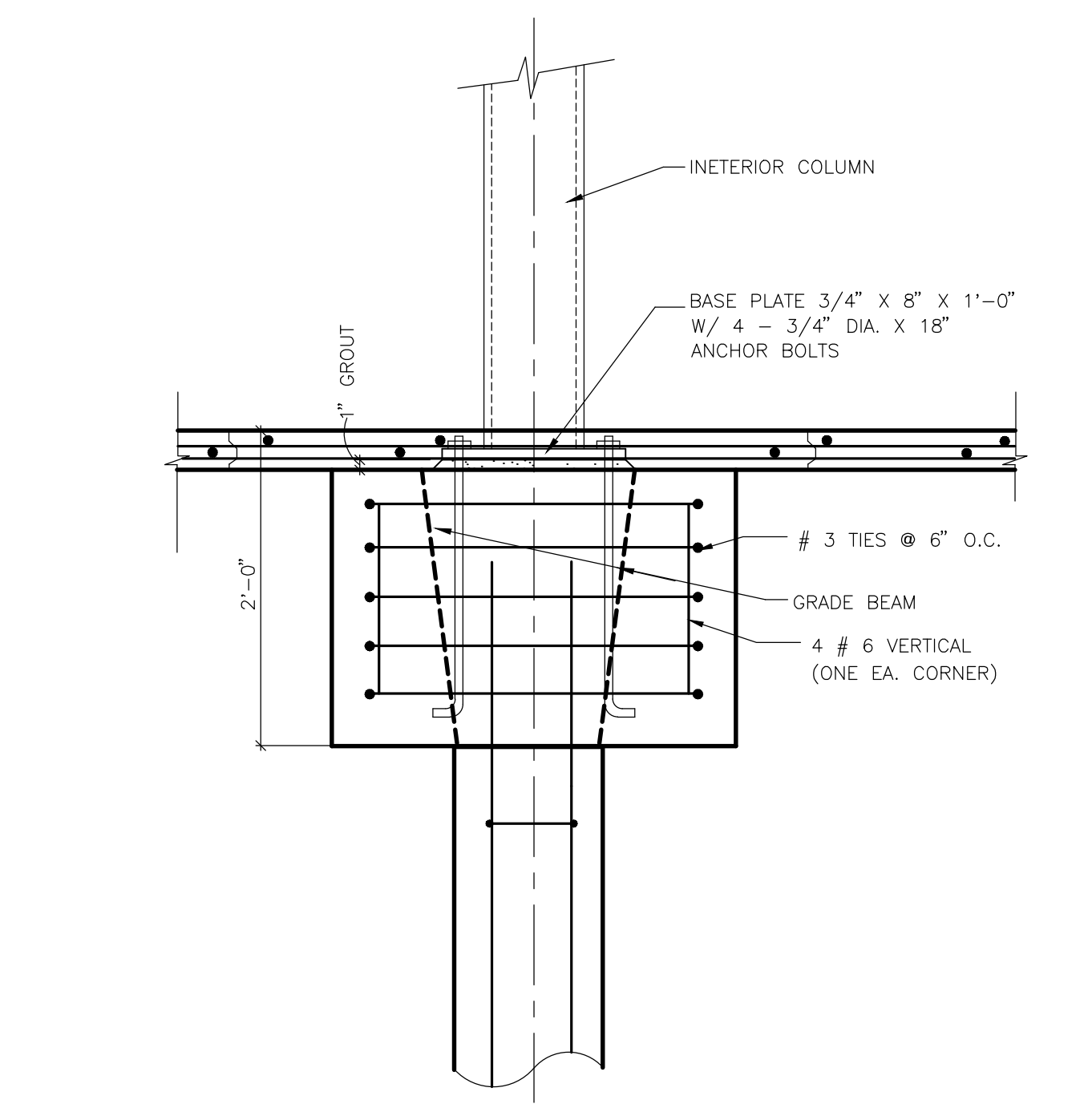
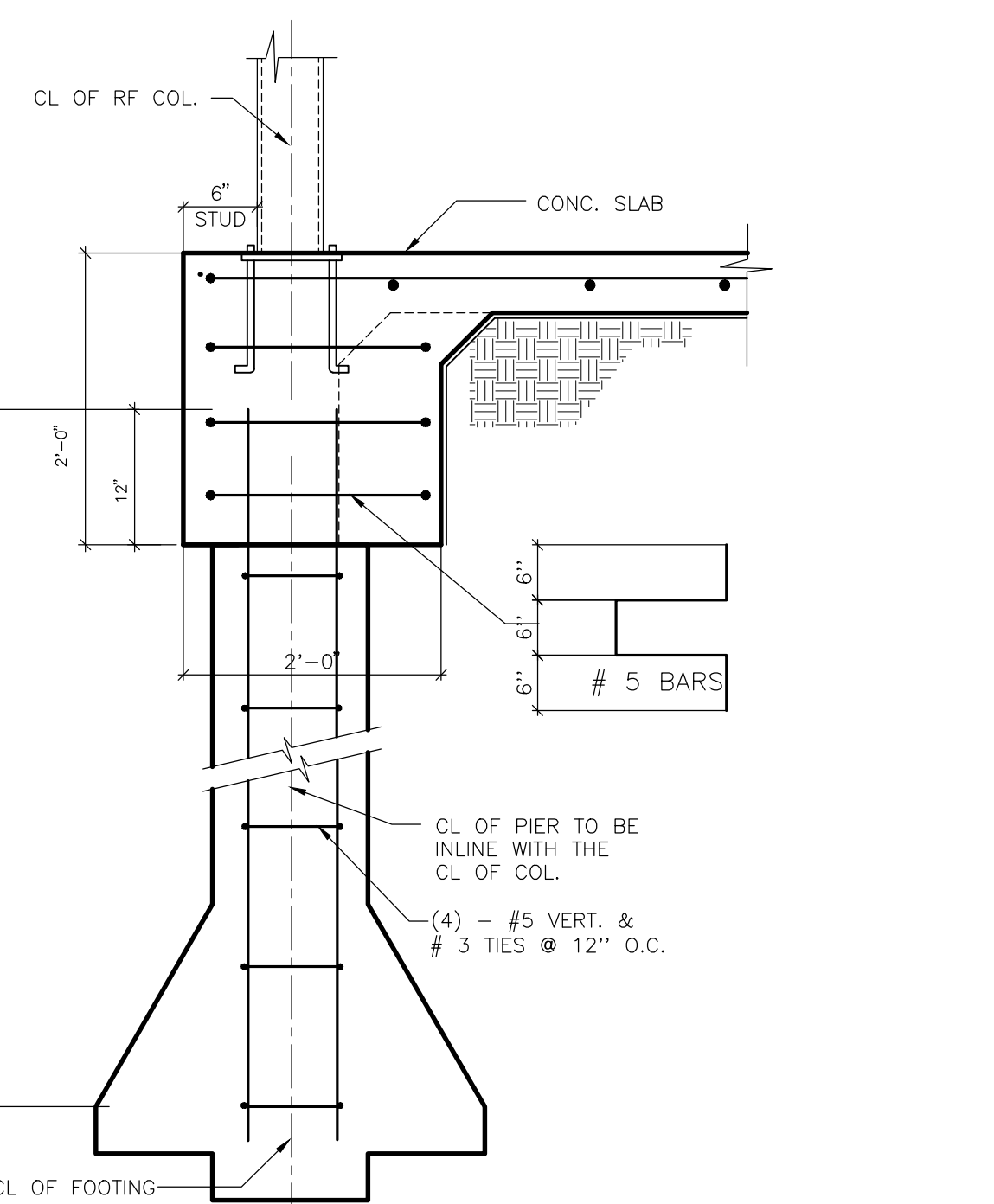
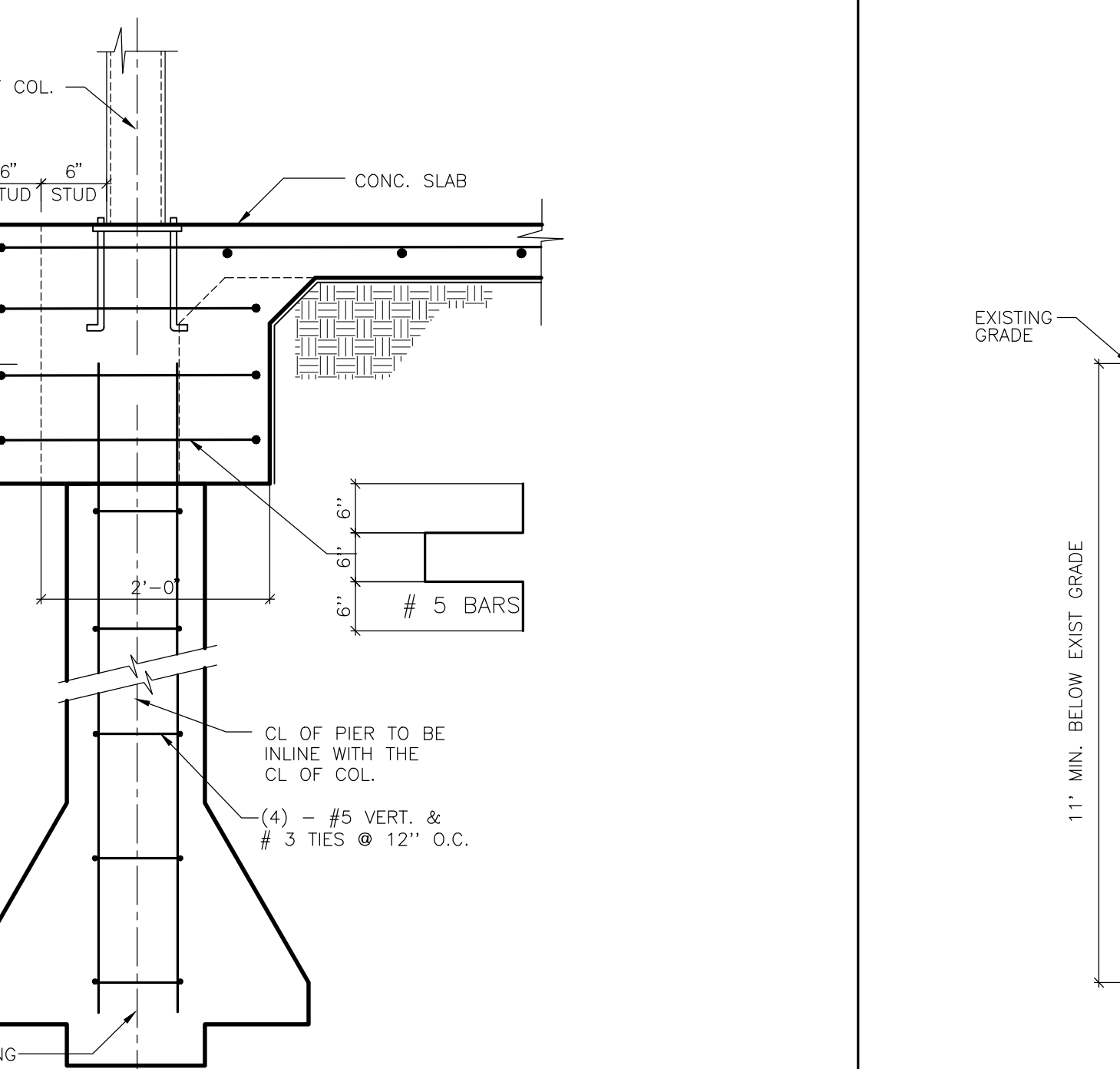
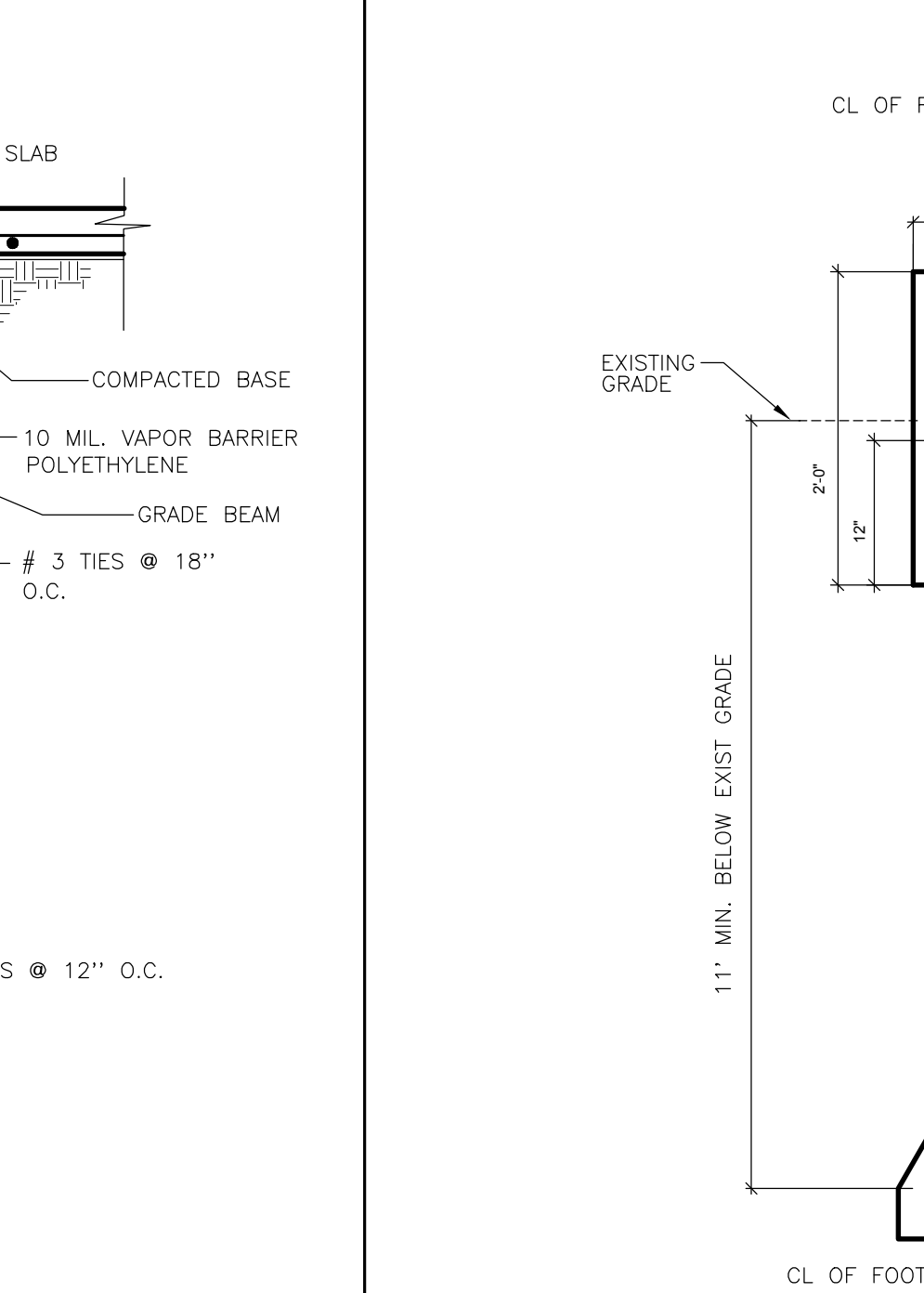
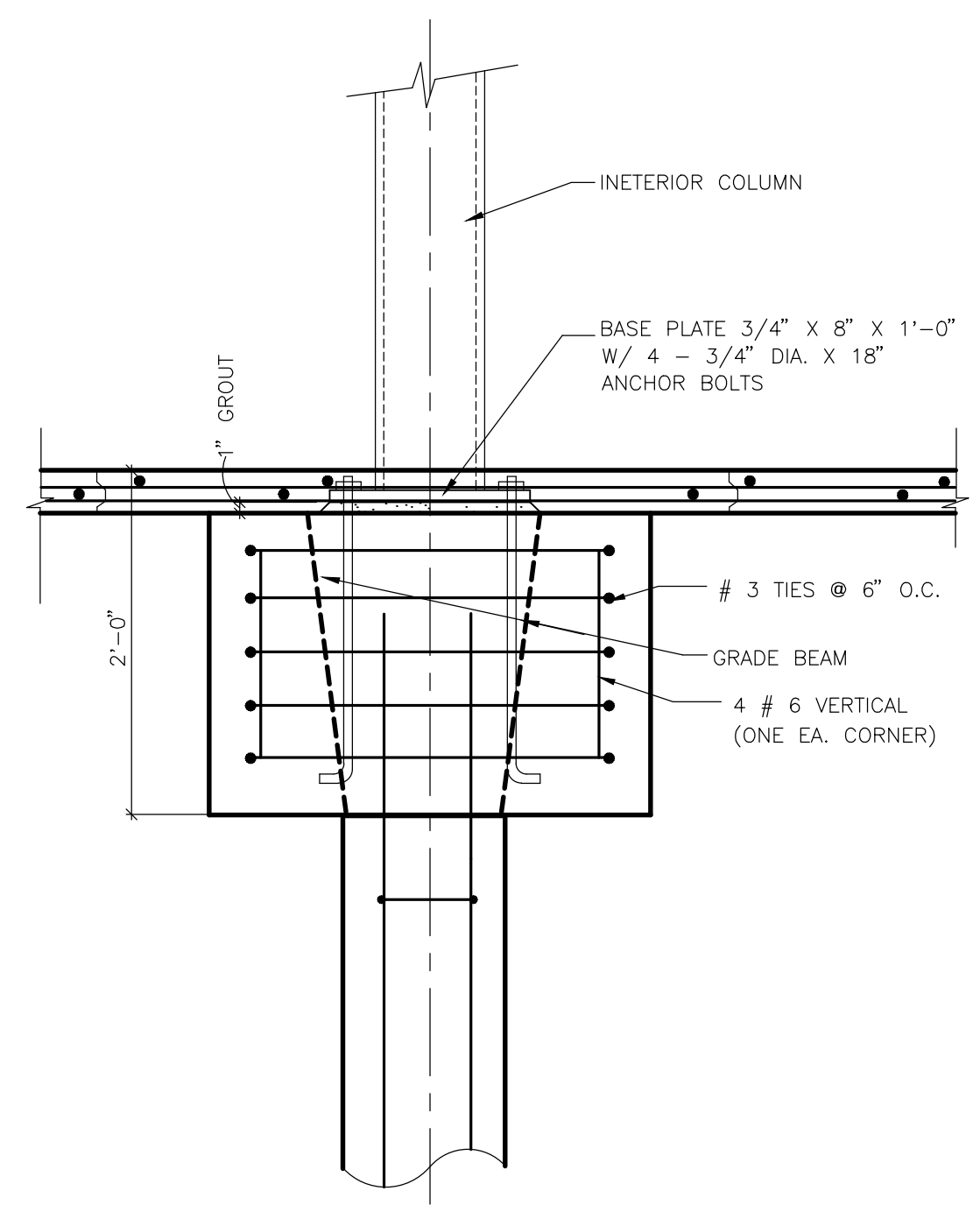
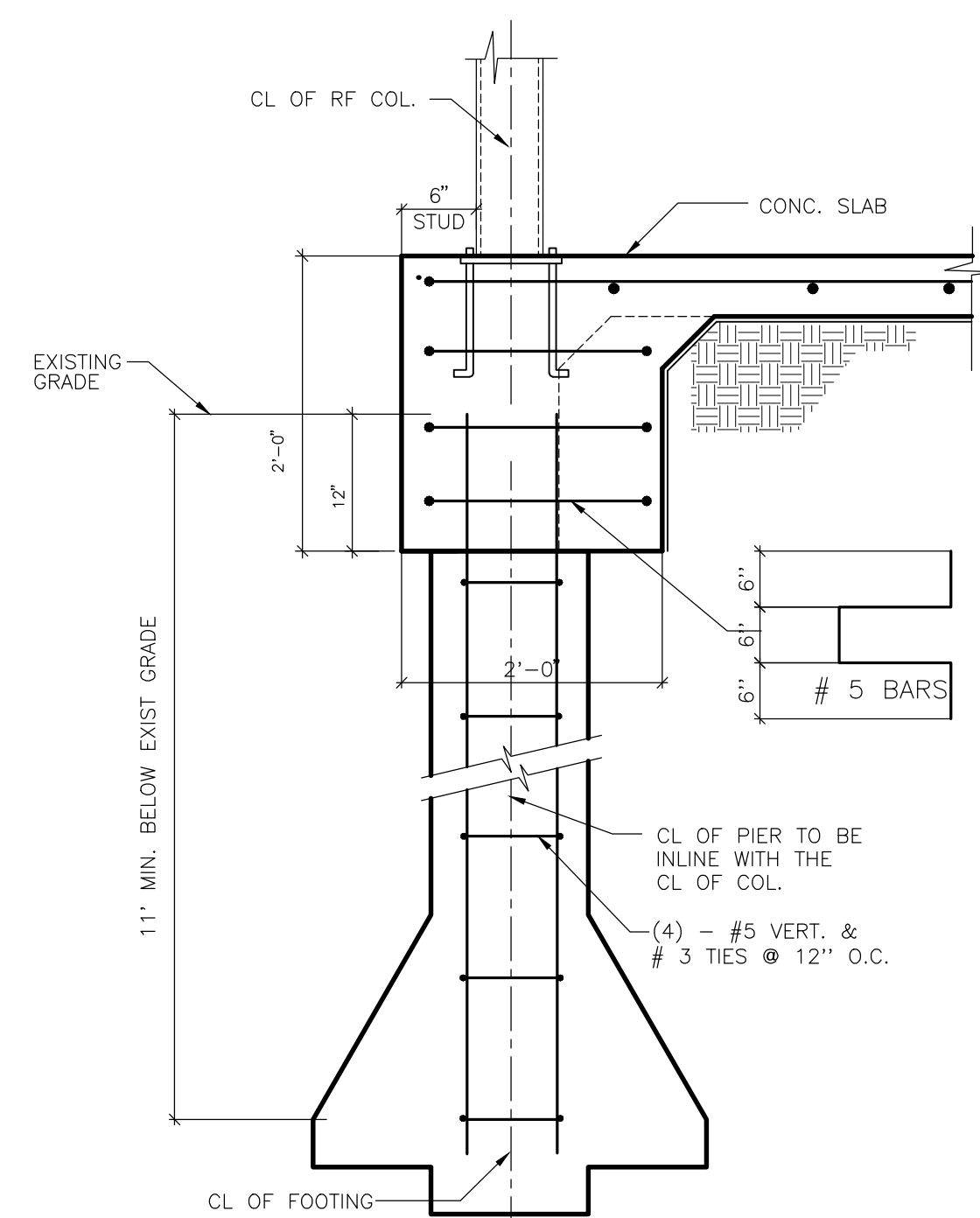
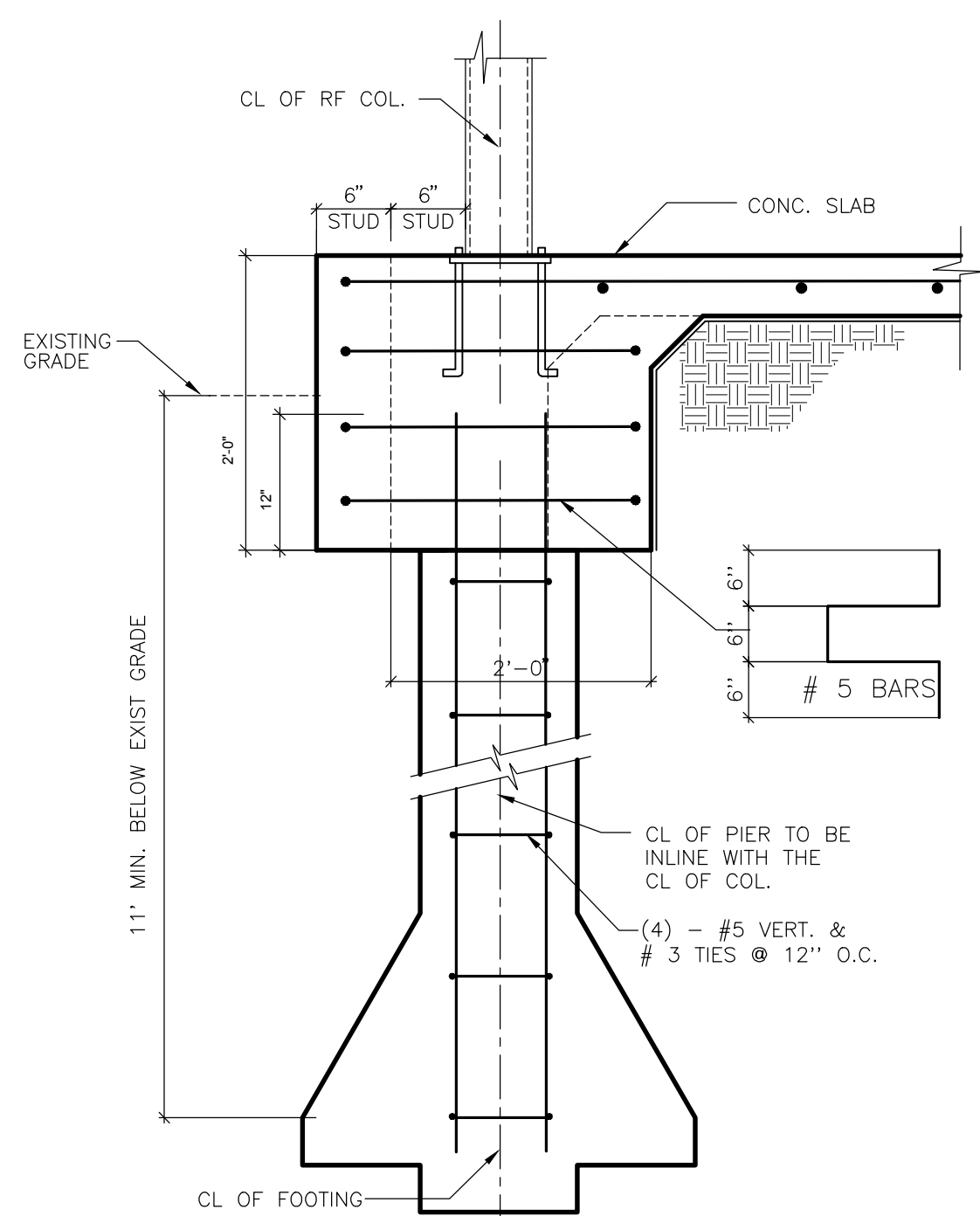
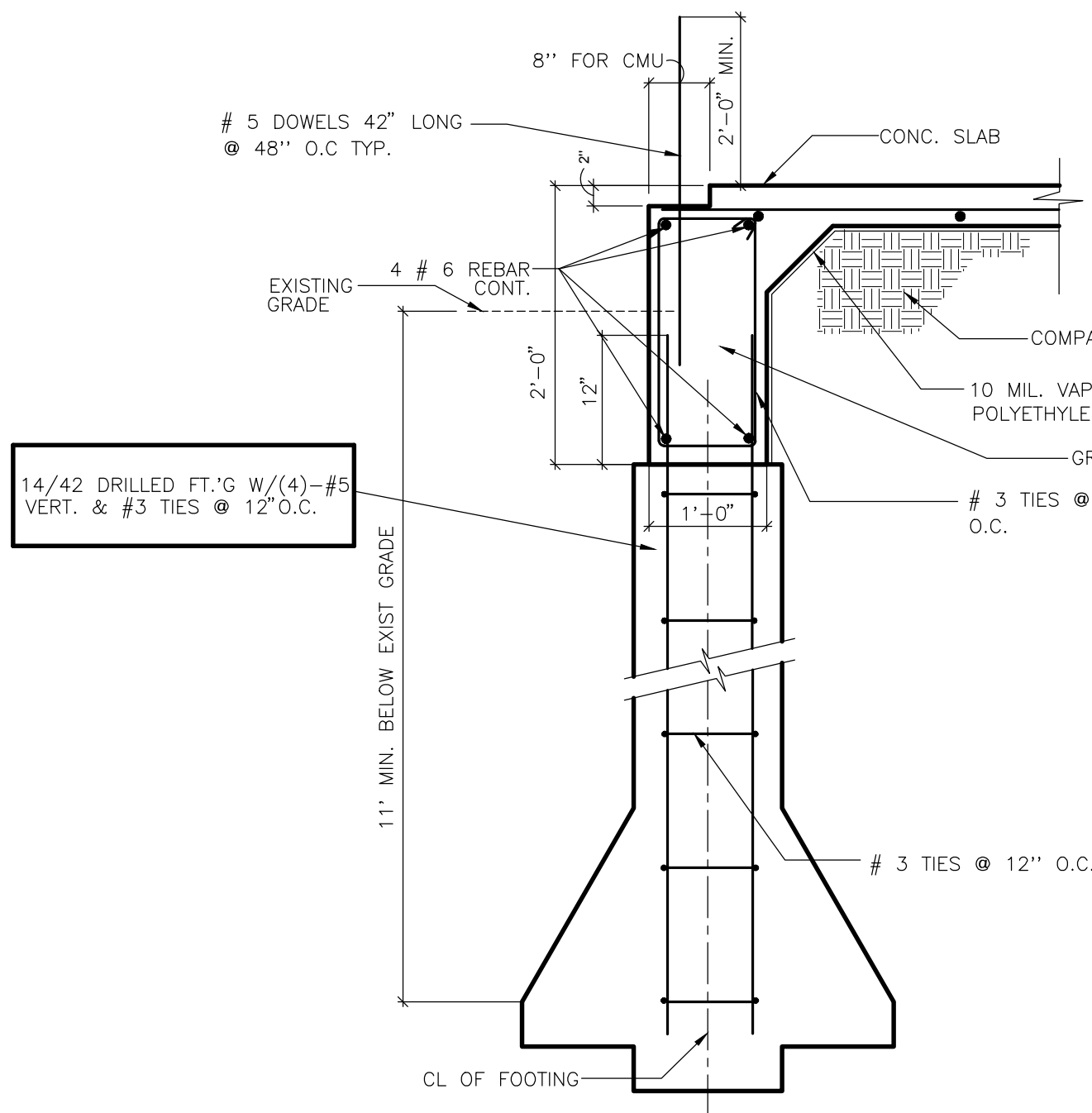
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A7.1

FOOD MART - BAYSHORE







A DETAIL PLAN AT CORNER OF GRADE BEAM

B DETAIL PLAN AT JUNCTION OF GRADE BEAMS

C 8" CMU WALL SECTION  
SCALE : N.T.S.

SECTION 10  
SCALE : N.T.S.

SCALE : AS NOTED

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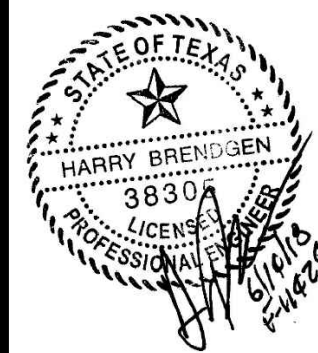
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FOUNDATION DETAILS

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FOOD MART - BAYSHORE



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# NEW LAWRENCE GROCERY

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## STRUCTURAL NOTES

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**S0**

## STRUCTURAL CONCEPTS, STANDARDS & LOADS

- A. DESIGN CONCEPT:
- THE STRUCTURE AS SHOWN HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS AND DESIGN STANDARDS TO SUPPORT THE FINAL BUILDING SERVICE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL SUPPORTS FOR THE STRUCTURE IF NECESSITATED BY THE CONSTRUCTION SEQUENCE OR METHODS OF FABRICATION, HANDLING, ERECTION AND OTHER CONSTRUCTION OPERATIONS.
  - BUILDING CODES AND DESIGN STANDARDS:
    - AMERICAN CONCRETE INSTITUTE (ACI), BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318.
    - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, 2005, AS AMENDED.
    - INTERNATIONAL BUILDING CODE, 2012 EDITION.
    - STEEL JOIST INSTITUTE (SJI), STANDARD SPECIFICATIONS FOR OPEN-WEB STEEL JOISTS.
    - STEEL DECK INSTITUTE (SDI), DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, ROOF DECKS AND CELLULAR METAL FLOOR DECK WITH ELECTRICAL DISTRIBUTION.
  - GRAVITY LOADS:
    - LOADS ARE GIVEN IN POUNDS PER SQUARE FOOT (PSF).

BUILDING AREA	DEAD LOAD (PSF)	LIVE LOAD (PSF)
1. ROOF	15	20

• INCLUDES AN ALLOWANCE OF 10 PSF FOR PARTITION.
    - LIVE LOADS ON FOUNDATIONS HAVE BEEN REDUCED IN ACCORDANCE WITH THE BUILDING CODE.
    - ROOF MEMBERS HAVE BEEN DESIGNED TO SUPPORT 3" OF WATER.
  - LATERAL DESIGN LOADS:
    - WIND LOADS –INLAND 1, 120 MPH WITH EXPOSURE B AND CATEGORY II.

## STRUCTURAL STEEL

- A. ROLLED SHAPES:
- PROVIDE STRUCTURAL STEEL FOR W-SHAPE MEMBERS CONFORMING TO AMERICAN SOCIETY FOR TESTING MATERIALS ASTM A992, GRADE 50 (50 KSI), UNLESS OTHERWISE NOTED.
  - PROVIDE STRUCTURAL STEEL FOR ALL OTHER SHAPES, PLATES AND BARS CONFORMING TO ASTM GRADE 50, UNLESS OTHERWISE NOTED.
  - PROVIDE STRUCTURAL STEEL FOR HOLLOW STRUCTURAL SECTIONS CONFORMING TO ASTM A500, GRADE B, UNLESS OTHERWISE NOTED.
  - PROVIDE STRUCTURAL STEEL FOR PIPE CONFORMING TO ASTM A53, TYPE E OR S, GRADE B, UNLESS OTHERWISE NOTED.
- B. CONNECTIONS
- ALL BOLTED CONNECTIONS SHALL BE STANDARD AMERICAN INSTITUTE OF STEEL CONSTRUCTION BOLTED CONNECTIONS; USING AMERICAN SOCIETY FOR TESTING MATERIALS A325 BOLTS.
  - ALL WELDED CONNECTIONS SHALL CONFORM TO AMERICAN WELDING SOCIETY UNLESS OTHERWISE NOTED.
  - SURVEY ALL PLANS, DETAILS, SECTIONS, SCHEDULES AND SPECIFICATIONS FOR SPECIAL CONNECTIONS.
  - UNLESS OTHERWISE NOTED AND/OR SPECIFIED, ALL BEAM CONNECTIONS SHALL BE DESIGNED TO SUPPORT 1/2 OF THE TOTAL UNIFORM LOAD FOR THE APPLICABLE MEMBER SIZE AND SPAN AS DETERMINED BY THE TABLES FOR ALLOWABLE UNIFORM LOADS ON BEAMS IN THE 9TH EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION (ASD).
  - MOMENT CONNECTIONS SHOWN SHALL BE DESIGNED TO FULLY DEVELOP THE SECTION IN FLEXURE AND TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD FOR SHEAR AS DESCRIBED IN NOTE 4 ABOVE.
- C. OPEN-WEB STEEL JOISTS:
- AS APPLICABLE FOR THE OPEN WEB STEEL JOIST TYPES INDICATED ON THE DRAWINGS CONFORMING TO STEEL JOIST INSTITUTE.
  - PROVIDE BRIDGING IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE.
  - DESIGN ROOF JOISTS FOR NET UPLIFT PRESSURE OF 10 POUNDS PER SQUAREFOOT.
- D. STEEL DECK
- TYPE 1: STEEL DECK
- STEEL ROOF DECK SHALL BE 1 1/2" DEEP, TYPE B (WIDE RIB) FORMED FROM 22 GAUGE STEEL SHEETS, ASTM A611, GRADES C, D OR E, OR ASTM A653, STRUCTURAL STEEL (SS), GRADE 33, WITH G60 COATING.

## GENERAL NOTES FOR CONSTRUCTION

- CONSTRUCTION METHODS, PROCEDURES AND SEQUENCES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURE, DETAILS, INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.
- ANY PROPOSED SUBSTITUTION MUST BE EQUAL OR BETTER AND SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER PRIOR TO ANY PERTINENT WORK AND PRIOR TO THE AWARD OF THE CONTRACT.
- NOT ALL OPENINGS AND OTHER COMPONENTS THAT ARE REQUIRED HAVE BEEN SHOWN IN THE STRUCTURAL DRAWINGS. COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATIONS AND SIZES OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS AND OTHER PROJECT REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL DRAWINGS TO DETERMINE WHERE OPENINGS ARE REQUIRED IN REINFORCED CONCRETE BEAMS AND SLABS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DETAILING ALL THE OPENINGS, INCLUDING ADDED REINFORCEMENT AS SHOWN ON THE TYPICAL WALL, SLAB AND BEAM OPENING DETAILS FOR REVIEW.
- ADDITIONAL REINFORCEMENT ABOVE THAT SHOWN IN THE TYPICAL SLAB AND BEAM OPENING DETAILS MAY BE REQUIRED AND WILL BE REVIEWED ON THE SHOP DRAWINGS.
- USE THE MANUFACTURER'S CERTIFIED DRAWINGS AND SPECIFICATIONS FOR THE EQUIPMENT ANCHORAGE AND DETAILS.
- ALL CONSTRUCTION JOINTS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE. ADDITIONAL CONSTRUCTION JOINTS TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON THE SHOP DRAWINGS FOR REVIEW.
- HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN BEAMS UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.
- ALL CONSTRUCTION AND CONTROL JOINTS FOR BEAMS WHICH ARE EXPOSED TO VIEW ARE TO BE LOCATED TO COINCIDE WITH THE ARCHITECTURAL RUSTICATION JOINTS AS SHOWN ON THE BUILDING ELEVATION SHEETS OR AS REVIEWED IN WRITING.
- ALL WELDING SHALL CONFORM TO AWS STANDARDS. THE THICKNESS AND THE LENGTHS OF THE WELDS ARE AS SHOWN, SPECIFIED OR AS REQUIRED.
- SHOP DRAWINGS:
  - THE TERM "SHOP DRAWINGS" INCLUDES FABRICATION, MANUFACTURING, ERECTION AND SETTING DRAWINGS, BROCHURES, CERTIFICATES, AND PRODUCT DATA DESCRIBING MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE ALL PERTINENT INFORMATION REQUIRED FOR THE ENGINEER TO FULLY EVALUATE THE MATERIALS BEING REPRESENTED BY THE SUBMITTAL INCLUDING THE PHYSICAL PROPERTIES, DIMENSIONS LOCATIONS AND METHOD OF INSTALLATION.
  - SHOP DRAWINGS WILL BEAR THE REVIEW STAMP OF THE CONTRACTOR INDICATING THAT HE HAS REVIEWED THE DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS; COORDINATED ITEMS INCLUDED IN THE SUBMITTAL WITH RELATED ITEMS; AND VERIFIED AND COORDINATED DIMENSIONS.
  - REPRODUCTIONS OF THE ENGINEERING DRAWINGS WILL NOT BE ACCEPTABLE AS SHOP DRAWINGS.
  - ANY SHOP DRAWING THAT DOES NOT CONFORM TO THESE REQUIREMENTS WILL BE CAUSE FOR REJECTION AND WILL BE RETURNED WITHOUT ANY FURTHER ACTION.
- STEEL ERECTOR SHALL INSTALL TEMPORARY CABLE BRACING UNTIL ALL WELDING INCLUDING ROOF DECK IS COMPLETED AND ALL WALL SHEATHING IS INSTALLED.

## CONCRETE MASONRY NOTES:

- MASONRY CONSTRUCTION SHALL CONFORM TO THE REFERENCED BUILDING CODE, (ACI 531-79) AND (ACI 531R-79). HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, LIGHT WEIGHT, TYPE N1, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1350 PSI ON THE NET AREA OF THE BLOCK.
- MORTAR SHALL CONFORM TO ASTM C 270, TYPE S WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI. COARSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8", AND A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS.
- CONCRETE SHALL CONFORM TO ACI 318-83 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS.
- ALL CELLS CONTAINING VERTICAL REINFORCING STEEL, LINTEL BEAMS AND BOND BEAMS SHALL BE FILLED SOLID WITH COARSE GROUT OR CONCRETE AS DESCRIBED ABOVE.
- THE FIRST TWO CELLS AT WALL OPENINGS AND WALL ENDS SHALL BE REINFORCED WITH 1-#5 VERTICAL EACH CELL SHALL EXTEND FROM FOUNDATION TO TOP OF WALL.
- REINFORCING STEEL SHALL BE LAPPED 30 BAR DIAMETERS MINIMUM WHERE SPLICED AND SHALL BE WIRED TOGETHER.
- WIRE REINFORCEMENT, "DUR-O-WALL" OR EQUAL SHALL BE LAPPED AT LEAST 6 INCHES AT SPLICES AND SHALL CONTAIN AT LEAST ONE CROSS WIRE OR EACH PIECE OF REINFORCEMENT IN THE LAPPED DISTANCE.
- VERTICAL BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 4'-0" WITH A MINIMUM CLEARANCE OF 1/2 INCH FROM THE MASONRY, AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS. BARS SHALL BE PLACED AS SHOWN AND NOTED ON DETAILS.
- VERTICAL REINFORCING BARS MAY BE SPLICED IN 6' TO 8' LENGTHS, PROVIDED THE SPLICES IN ADJACENT BARS ARE STAGGERED AND ARRANGED SO THAT NO MORE THAN 1/3 OF THE TOTAL NUMBER OF BARS ARE SPLICED AT ANY LOCATION AND NOT MORE THAN 1/2 OF THE TOTAL NUMBER OF BARS ARE SPLICED AT MID-HEIGHT OF THE WALL. ALL BARS SHALL BE TIED AT SPLICES.
- WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL TO SIX VERTICAL. REMOVE CELL DIVIDER WHEN REQUIRED.
- STANDARD WEIGHT 9 GAGE TRUSS TYPE "DUR-O-WALL", OR EQUAL SHALL BE PLACED HORIZONTALLY AT 16" O.C. AT ALL WALLS.
- HORIZONTAL REINFORCING BARS SHALL BE PLACED IN CONTINUOUS MASONRY COURSES, CONSISTING OF BOND-BEAM OR LINTEL BLOCK UNITS, AND SHALL BE SOLIDLY GROUTED IN PLACE. AT LINTEL BEAMS, BARS SHALL EXTEND NOT LESS THAN 20 BAR DIAMETERS OR 16" (WHICHEVER IS GREATER) PAST THE OPENING FACE.
- LINTEL BEAMS SHALL BE CONTINUOUS AT CONTROL & EXPANSION JOINTS-PROVIDE DUMMY JOINT WHEN REQUIRED, UNLESS NOTED OTHERWISE. BOND BEAMS SHALL BE DISCONTINUOUS AT CONTROL AND EXPANSION JOINTS. BOND BEAMS SHALL BE REINFORCED WITH 2-#5 BARS, UNLESS NOTED OTHERWISE.
- REFER TO ARCHITECTURAL DRAWINGS FOR CONTROL AND EXPANSION JOINT LOCATIONS. THE MASONRY CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN JOINT LOCATIONS. IN ADDITION, THE MASONRY CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY JOINT LOCATIONS, OR ABSENCE OF JOINTS, THAT DO NOT CONFORM TO THE ABOVE REFERENCED BUILDING CODES.
- MASONRY TIES TO STRUCTURAL STEEL FRAMING SHALL BE "POS.I.TIE" BY NATIONAL WIRE PRODUCTS CORPORATION (OR EQUAL). TIES SHALL BE PLACED AS SHOWN ON DETAILS.
- SLEEVE ANCHORS INTO MASONRY SHALL BE "SLEEVE ANCHORS" BY HILTI OR EQUAL.
- DESIGN STRESSES HAVE BEEN LIMITED TO ALLOW FOR "NO SPECIAL INSPECTION REQUIRED" FOR CONCRETE BLOCK CONSTRUCTION.

## NOTE:

- REFER TO STEEL BUILDING MANUFACTURER ANCHOR BOLT PLAN FOR SIZES, QUANTITIES AND LOCATION OF ANCHOR BOLTS

## CONCRETE DESIGN:

- CLASS 'A' CONCRETE SHALL HAVE A 28 DAY DESIGN STRENGTH OF 4500 PSI WHEN TESTED UNDER LABORATORY CONDITIONS IN ACCORDANCE WITH AD 318, LATEST EDITION.
- CLASS 'B' CONCRETE SHALL HAVE A 28 DAY DESIGN STRENGTH OF 3000 PSI WHEN TESTED UNDER LABORATORY CONDITIONS IN ACCORDANCE WITH ACI 318, LATEST EDITION.
- CLASS 'C' CONCRETE SHALL HAVE A 28 DAY DESIGN STRENGTH OF 2500 PSI WHEN TESTED UNDER LABORATORY CONDITIONS IN ACCORDANCE WITH ACI 318, LATEST EDITION.

CLASS 'A' -----ALL MACHINE AND EQUIPMENT FOUNDATIONS. (NOT USED)  
CLASS 'B' -----ALL GRADE BEAMS AND SLABS ON GRADE.  
CLASS 'C' -----ALL DRILLED AND BETTED PIERS.
- COURSE AGGREGATE SHALL NOT EXCEED 1 1/2" AND GRADATION FROM COURSE AGGREGATE TO FINES SHALL BE UNIFORM WITH LESS THAN 5% PASSING THE #200 SIEVE.
- AIR ENTRAINMENT SHALL BE A MIN. OF 41/2% BY VOLUME USING AN APPROVED AIR-ENTRAINING AGENT.
- REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A5, GRADE 60, FABRICATED IN ACCORDANCE WITH ASTM A305.

## CONCRETE MIXING AND POUR INSTRUCTIONS:

- CONCRETE SHALL BE MIXED, TRANSPORTED AND PLACED IN ACCORDANCE WITH ACI 304-73 OR LATEST EDITION.
- TEST CYLINDERS SHALL BE PREPARED BY AN EXPERIENCED TECHNICIAN WITH A MINIMUM OF THREE (3) CYLINDERS PER 25 C1Y1 OR ONE SET OF THREE (3) PER POUR, WHICHEVER IS GREATER
- CYLINDER CURING SHALL BE ACCOMPLISHED UNDER SITE CONDITIONS AND SHALL NOT BE DISTURBED DURING THE FIRST 72 HOURS. TRANSPORTATION TO THE LABORATORY SHALL BE VIA AN APPROVED LINED AND CUSHIONED CONTAINER.
- CONCRETE SHALL NOT BE PLACED WHEN THE AMBIENT TEMPERATURE IS ABOVE 90 DEGREES AND RISING OR BELOW 40 DEGREES AND FALLING WITHOUT AN APPROVED MEANS OF PROTECTING THE CONCRETE DURING AND AFTER THE POUR.
- SLUMP SHALL BE MEASURED ON EACH POUR AND SHALL NOT BE LESS THAN 1" NOR MORE THAN 4" FOR CLASS 'A' OR 'B' CONCRETE. NO MORE THAN 5% TOTAL WATER CONTENT MAY BE ADDED AT THE JOB-SITE. DESIGN MIX PROPORTIONS, INCLUDING WATER SHALL BE CONTROLLED AT THE BATCH PLANT. CONCRETE SHALL NOT BE ALLOWED TO "FLOW", BUT SHALL BE ALLOWED TO "FILL" THE FINAL LOCATION VIA USE OF CHUTES, GEORGIA BUGLES, PUMP TRUCK OR OTHER MEANS OF DELIVERY APPROVED BY THE ENGINEER.
- PENCIL VIBRATORS SHALL BE USED IN THE PROXIMITY OF REINFORCING RODS AND SIDE FORMS TO ELIMINATE VOIDS AND ASSURE CONSOLIDATION OF THE CONCRETE AROUND THE REINFORCING.
- CURING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ACI 308. IF WATER IS USED, THE CONCRETE SHALL BE MAINTAINED IN A SURFACE SATURATED CONDITION FOR A PERIOD OF 7 DAYS. APPROVED LIQUID MEMBRANE CURING COMPOUNDS SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C309 AND SHALL BE APPLIED IN ACCORDANCE WITH ACI 308.2.3.3.
- FINISH OF THE EXPOSED PERIMETER GRADE BEAMS SHALL BE HAND RUBBED TO REMOVE ALL FORM MARKS AND FILL ANY VOIDS. RUBBING SHALL BE ACCOMPLISHED BY WETTING THE SURFACE AND WORKING A PASTE FROM THE IN-PLACE CONCRETE, NOT FROM ADDED CEMENT AND FINE AGGREGATE.
- FINISH SHALL BE LIGHT BROOM.
- THE INTERIOR SLAB SHALL BE FINISHED UTILIZING A 'JITTER-BUG' TO REMOVE THE EXPOSED LARGE AGGREGATE FROM THE SURFACE AND SHALL BE STEEL TROWELED TO A SMOOTH DENSE WEARING SURFACE.
- FLOOR HARDENER SHALL BE APPLIED DURING THE FINISHING OPERATION TO EFFECT A FINISHED CONCRETE SURFACE FREE OF DUST AND EFFERVESCENCE.
- MOISTURE BARRIER SHALL BE MEET THE REQUIREMENTS OF ASTM 2103, 10 MIL THICK POLYETHYLENE FILM.

## BACK FILL NOTES:

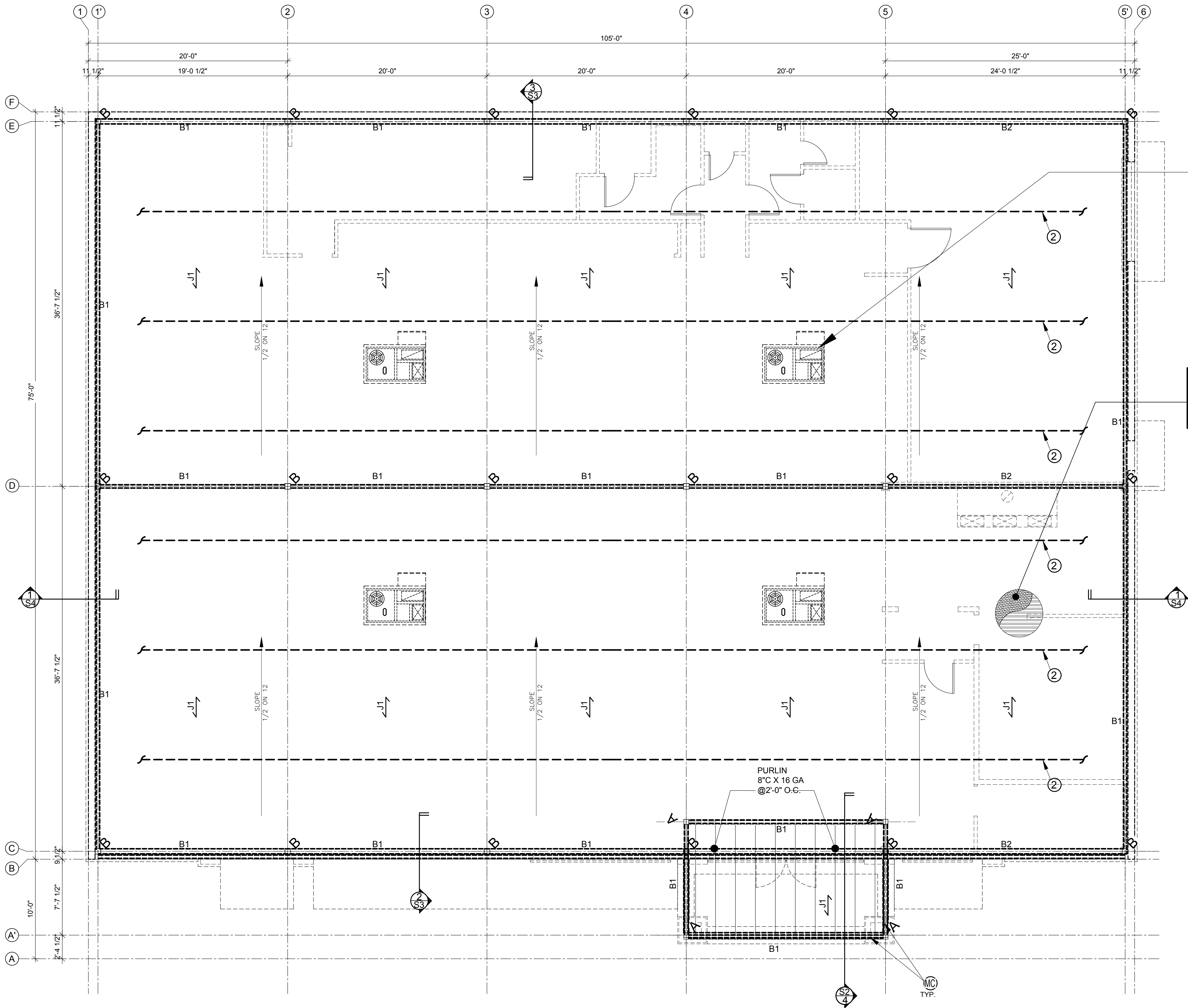
- SELECT FILL OR BACK FILL SHALL BE AN APPROVED TYPE OF SAND OR SANDY CLAY FREE OF FOREIGN SUBSTANCES AND HAVING A PLASTICITY INDEX BETWEEN 6 & 20 WITH A LIQUID LIMIT OF 40 OR LESS.
- COMMON FILL OR BACK FILL SHALL BE AN APPROVED SITE EXCAVATED MATERIAL OF SIMILAR CLASSIFICATION AND CHARACTERISTICS.
- SAND FILL SHALL BE CLEAN BANK SAND, FREE DRAINING AND ABSENT OF ANY FOREIGN MATTER.
- SAND FILL OR BACK FILL SHALL BE COMPACTED IN 6" LIFTS TO A MINIMUM RELATIVE DENSITY OF 75%, SANDY CLAY SHALL BE COMPACTED TO A MINIMUM RELATIVE DENSITY OF 95% PROCTOR AS DETERMINED BY LABORATORY ANALYSIS. A MINIMUM OF 2 DENSITY TESTS PER LIFT SHALL BE TAKEN. IN PLACE DENSITY TEST SHALL BE PER ASTM D1556 OR D2922 AND FURTHER PLACEMENT SHALL NOT BE ALLOWED UNTILL THE REQUIRED DENSITY HAS BEEN ACHIEVED.
- SLOPE GRADE AWAY FROM SLAB AS DESIGNATED ON THE DRAWINGS TO NATURAL SITE GRADE ELEVATIONS AT THE PROJECT LIMITS, UNLESS OTHERWISE NOTED OR DIRECTED.
- IF TESTS INDICATE THE WORK DOES NOT MEET THE SPECIFIED REQUIREMENTS, REMOVE THE WORK, REPLACE AND RETEST AT NO COST TO THE OWNER OR HIS DESIGNATED REPRESENTATIVE.
- SUB GRADE SHALL BE STABILIZED WITH THE ADDITION OF LIME SLURRY, NOT TO EXCEED 7% BY VOLUME TO A MINIMUM DEPTH OF 6 INCHES.

## FOUNDATION NOTES:

- VERIFY ALL DIMENSIONS EXISTING UNDERGROUND UTILITIES AND ANY OTHER EXISTING CONDITIONS IN THE FIELD BEFORE COMMENCING WORK
- NOTIFY THE ENGINEER SHOULD DIMENSIONS OR CONDITIONS VARY FROM THE PLANS.
- ALL EARTH WORK SHALL BE DONE AS RECOMMENDED BY THE SOIL REPORT, PREPARED BY QUARTET ENGINEERS, PLLC 1839 HARLAND DRIVE, HOUSTON, TX 77055. REPORT # PGH-18-0117 , DATED: APR. 9 2018
- POUR CONCRETE AND SET THE REBARS FOOTING IMMEDIATELY AFTER DRILLING AND INSPECTION. UNCLEAN HOLES AT BOTTOM OF SLOUGH SIDED SHAFT SHALL CAUSE FOR REJECTION.
- ALL FORM WORK SHALL BE PLACED AND SHORED, ALL REINFORCING SHALL BE SET AND TIED, ALL CONCRETE SHALL BE PLACED, FINISHED, AND CURED PER ACI 318-83 SPECIFICATIONS AND PER ALL SAFETY PROVISIONS OF O.S.H.A.
- LAP REBAR AT ALL SPLICES A MINIMUM OF 36 BAR DIAMETERS. PROVIDE CORNER BARS AT ALL GRADE BEAM CORNERS A 10 FT. LONG 90 DEG. BENT BARS.
- ALL CONCRETE SURFACES SHALL BE PROPERLY CURED AND SUFFICIENT TIME ALLOWED BEFORE PERMITTING TRAFFIC OR CONSTRUCTION TO PROCEED. EXPOSED INTERIOR CONCRETE SURFACES SHALL RECEIVE A HARD STEEL TROWEL FINISH. EXTERIOR CONCRETE SHALL RECEIVE A LIGHT BROOM FINISH. CURING SHALL BE DONE WITHIN 14 DAYS PER ACI PROCEDURE.
- CONCRETE IN SLABS, GRADE BEAMS AND FOOTINGS SHALL HAVE A MIX DESIGN OF 3000 PSI, WITH 3/4" AGGREGATE, OR SPECIAL SIZED AGGREGATE IF PUMPING IS NECESSARY, AND A MINIMUM OF 5 SACKS OF STANDARD TYPE I CEMENT. THE ULTIMATE STRENGTH SHALL BE TESTED AT 28 DAYS AND AT OTHER TIMES AS IS NECESSARY TO PROCEED SAFELY WITH CONSTRUCTION. ANY ADDITIVES FOR ANY PURPOSE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL BE USED OVER METAL DECK.
- ALL REINFORCING BARS SHALL BE CLEAN, NEW, AND FREE OF DIRT, RUST, OR OIL, AND SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM A-615, GRADE 60 EXCEPT #3 BARS MAY BE GRADE 40.
- SAND SHALL BE CLEAN, SHARP, GRANULAR TYPE, LOCALLY AVAILABLE AND EASILY COMPACTABLE, FREE OF VEGETATION OR OTHER DELETERIOUS MATERIAL.
- ANCHOR BOLTS SHALL BE ASTM A-307 STANDARD BLACK (NOT GALVANIZED) BOLTS.
- PROVIDE CONTROL JOINTS AS SHOWN.
- SLAB ON GRADE SHALL BE PLACED ON 36" SELECT FILL. THE EXISTING SUB-GRADE AND ADDITIONAL FILL SHALL BE COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY WITHIN MINUS ONE TO PLUS TWO PERCENT AS DETERMINED BY TEX 113-E. SELECT OR STRUCTURAL FILL SHALL HAVE PLASTICITY INDEX (P.I.) OF 8 TO 20 AND A MAX. LIQUID LIMIT OF 40.
- CONCRETE COVERING OF THE REBAR SHALL BE:

DRILLED FTG.	- 3" SIDE
SLAB ON GRADE	- 1 1/2" FROM TOP
GRADE BEAM	- 1 1/2" TOP
SPREAD FTG.	- 3" BOTTOM
	- 2" SIDE
- SELECT FILL BENEATH THE BUILDING SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING IN 9" IN THICKNESS AND AS RECOMMENDED BY THE ENGINEER.

SCALE : NO SCALE



REFER ARCH. & MECH. PLANS  
FOR LOCATION OF RTUs  
APPROX. WT. 2,000 LBS EA.  
VERIFY W/ MANUF'R

TPO ROOFING OVER 4"  
ISOCYUNURATE RIGID BOARD  
INSULATION OVER TYPE 1.5 F22  
GALV. STEEL DECK.

COL. SCHEDULE:

HSS 5X5X1/4  
HSS 7X7X3/8

BEAM SCHEDULE:

B1 - W14X22  
B2 - W16X31

JOIST SCHEDULE:

1. J1 - 20K3 JOIST  
@ 4'-0" O.C.

KEY NOTES THIS SHEET:

- ① STUB COLUMN TO START ABOVE ROOF BAR JOIST.
- ② BAR JOIST BRIDGING.
- Ⓜ MOMENT CONNECTION

NOTES:

- SEE SHEET R-S0 FOR STRUCTURAL GENERAL NOTES.
- SEE SHEETS R-F1 AND R-F2 FOR FOUNDATION PLANS AND DETAILS.
- SEE SHEET R-S2 FOR BASE PLATES AND ANCHOR BOLT DETAILS.
- SEE SHEETS R-A1 FOR FLOOR PLANS AND COORDINATE FOR DIMENSIONS.
- SEE SHEET R-A2 AND R-A2.1 FOR EXTERIOR ELEVATIONS.



SCALE : 3/16" = 1' - 0"

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DRAWN:

CHECKED:

DATE :

# NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

ISSUE

06-12-18 I.F.P.



## FRAMING PLAN

**WA** WADHWA AND ASSOCIATES, INC.  
architects, planners  
and construction administration  
1220 Biolock #230 Ph: (713) 465-0009  
Houston, Texas 77055 Fax: (713) 465-2391

R E V I S I O N S

△	06-13-18 PRELIMINARY
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JOB NO.

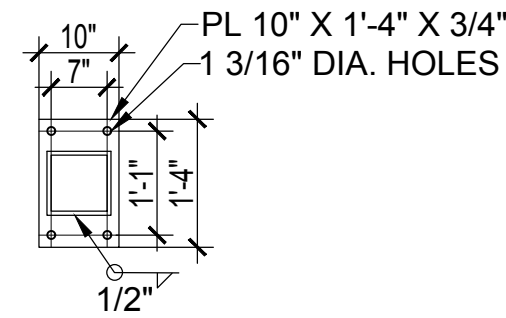
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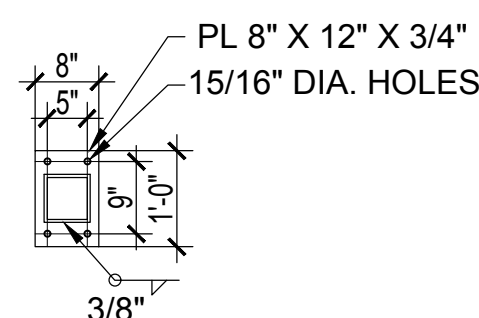
S1

FOOD MART - BAYSHORE

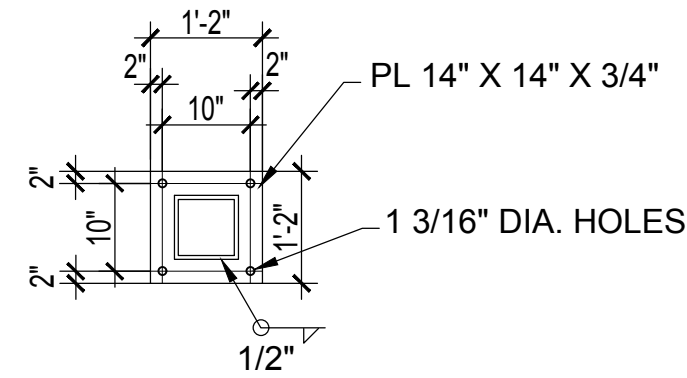




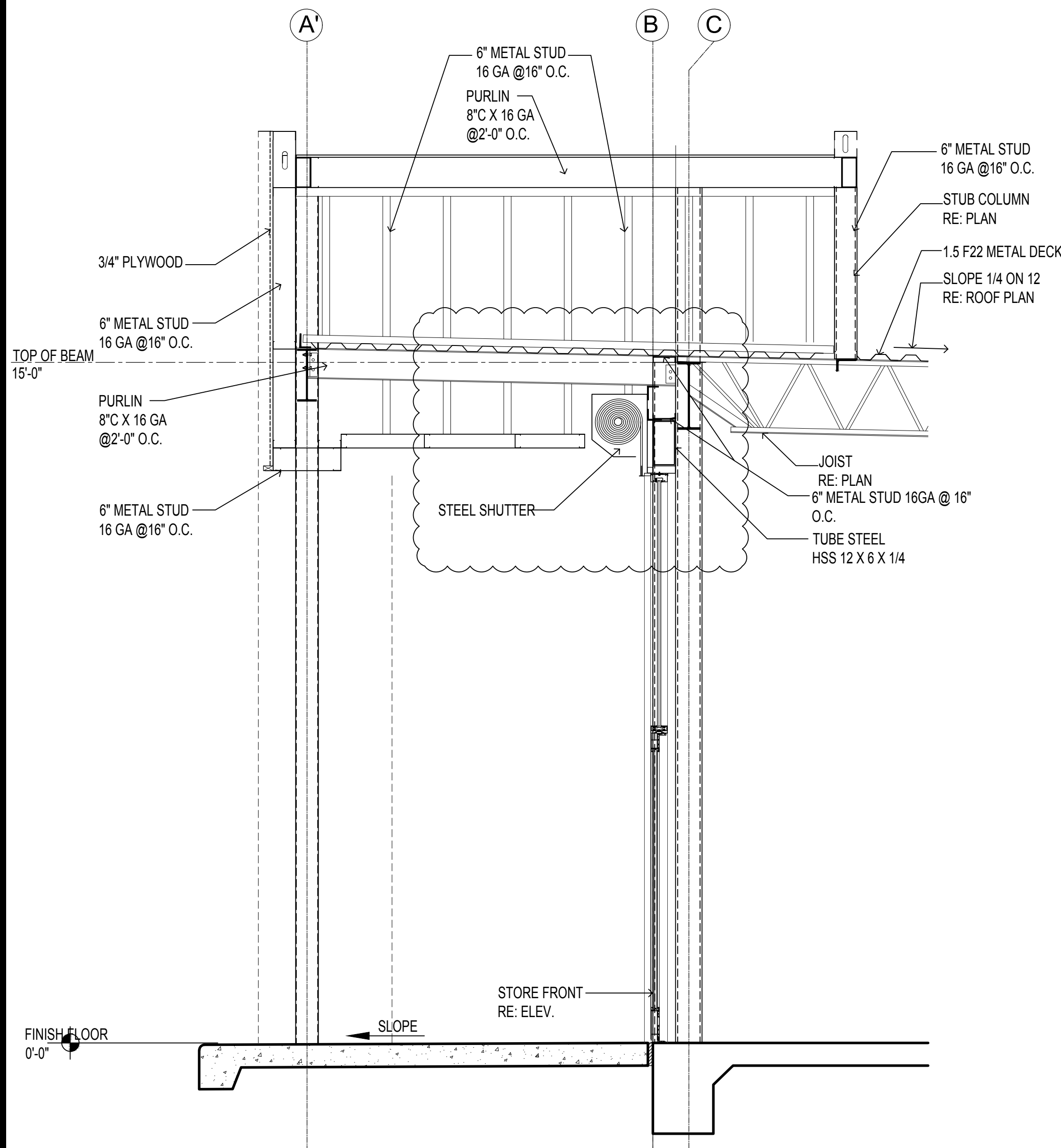
1 TYP. 7" COL. BASE PLATE



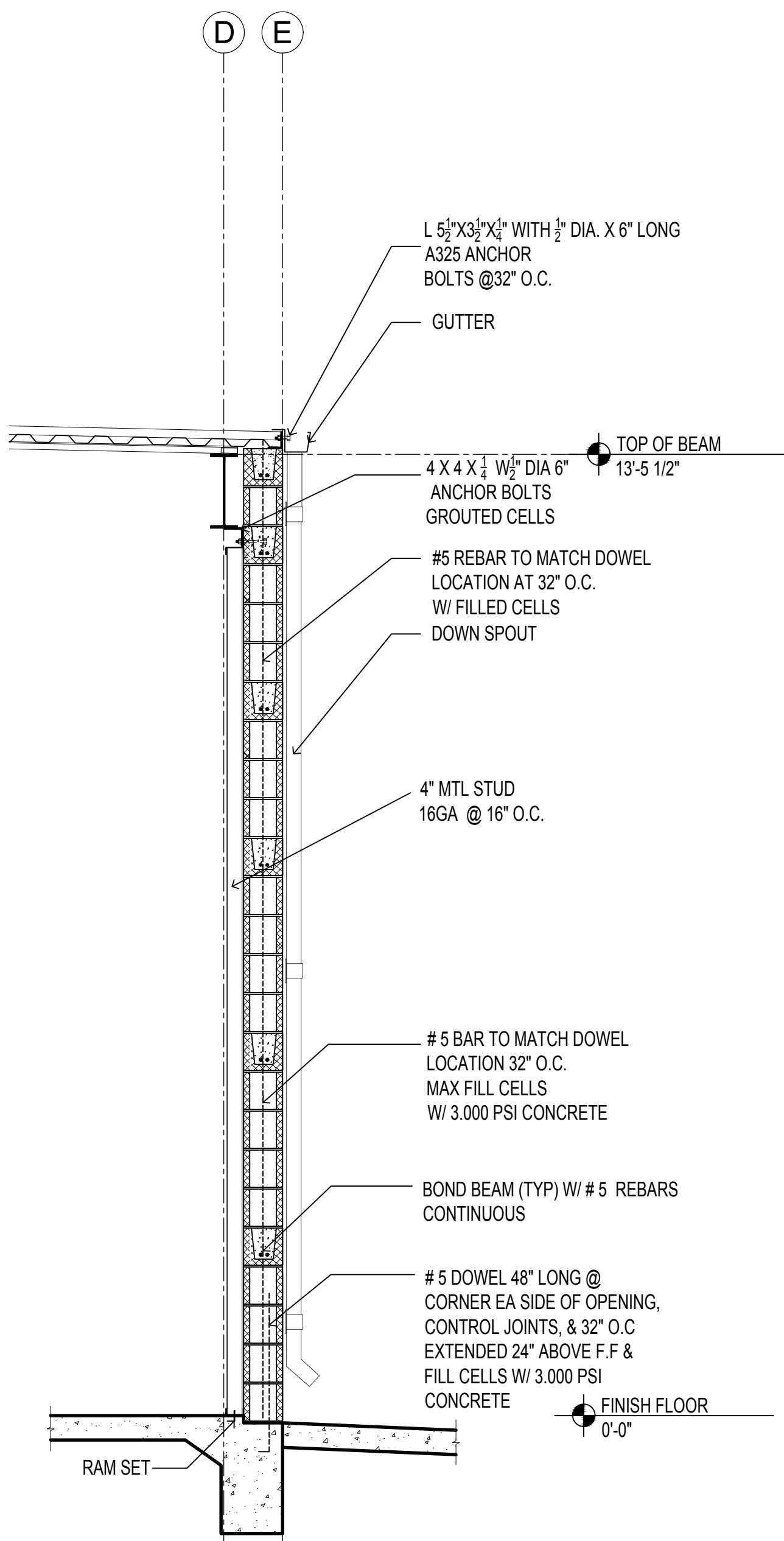
2 TYP. 5" COL. BASE PLATE



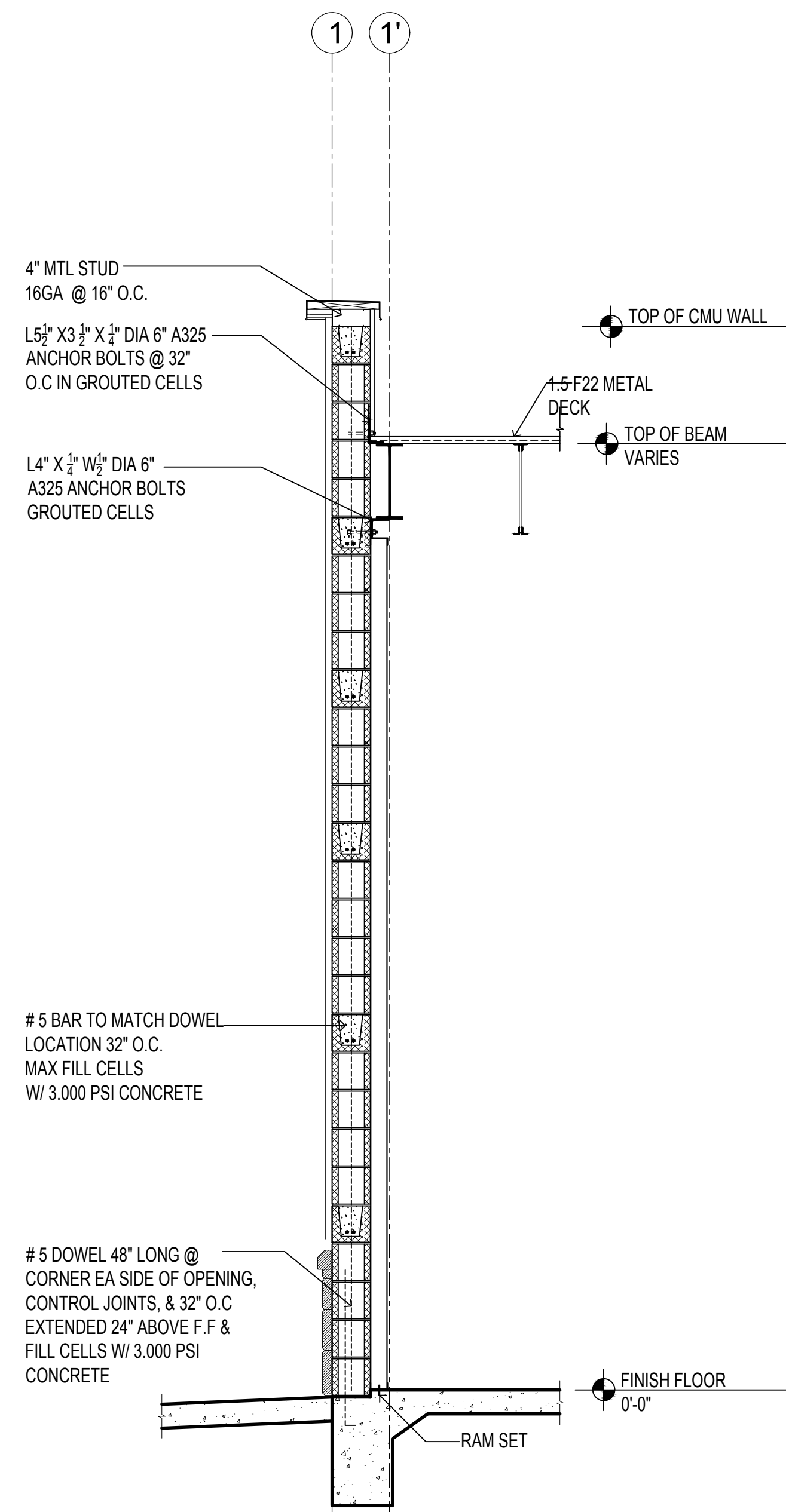
3 TYP. 7" CANOPY COL. BASE PLATE



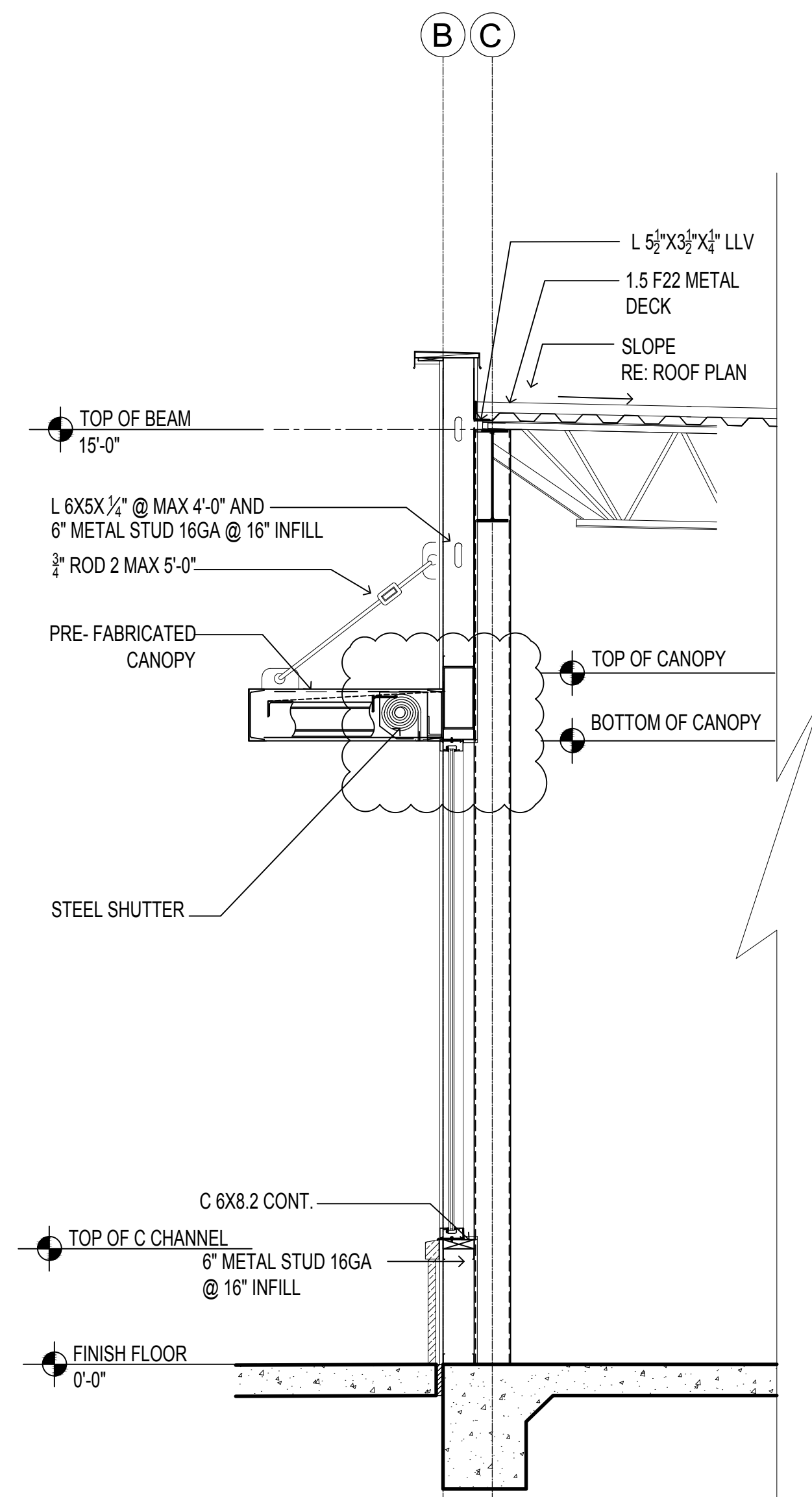
1 SECTION



2 SECTION



3 SECTION



4 SECTION

SCALE : N.T.S.

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DRAWN:

CHECKED:

DATE : JAN 2018

## NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

ISSUE

06-12-18 I.F.P.



### STRUCTURAL DETAILS



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REVISIONS

06-13-18	PRELIMINARY

JOB NO.

18-02-003

SHEET NO.

S2

FOOD MART - BAYSHORE

EXHAUST FAN SCHEDULE														
Mark	Model	Volume (CFM)	Total SP: (in. wg)	Fan Speed (RPM)	dBA	Inlet Sones	Motor Size (hp)	Enclosur e	Voltage	Phase	Cycle	EC Motor	Total Weight (lb)	NOTES
TOLIET EF-1	G-098-VG	425	0.279	1107	50	5	1/4	ODP	115	1	60 Cycle	VariGreen	57	1,2
TOLIET EF-2	G-098-VG	425	0.279	1107	50	5	1/4	ODP	115	1	60 Cycle	VariGreen	57	1,2
MAINTENANCE EF-3	G-098-VG	300	0.265	916	45	3	1/4	ODP	208	1	60 Cycle	VariGreen	57	1,2
STORAGE EF-4	G-097-VG	60	0.251	779	38	2	1/4	ODP	208	1	60 Cycle	VariGreen	57	1,2
DICKEY'S BBQ KEF-1	CUE-141-VG	1360	0.75	1185	59	10	1/2	ODP	208	1	60 Cycle	VariGreen	92	1,2
TACO CORNER KEF-2	CUE-141-VG	1385	0.75	1192	59	10	1/2	ODP	115	1	60 Cycle	VariGreen	104	1,2

#### EXHAUST FAN NOTES

- PROVIDE BACKDRAFT DAMPER.
- PROVIDE ROOF CURB.

DIFFUSER SCHEDULE								
Mark	Manufacturer	Type	CFM	Model	Neck	Face Size	Notes	NOTES
D-1	Price	Supply	325-425	RCDA	12" DIA.	27" DIA.	OPEN CEILING; CONNECT TO DUCT	1,2
D-2	Price	Supply	400-450	SPD	12" DIA.	24 x 24	LAY-IN CEILING	1,2
D-3	Price	Supply	300-350	SPD	10" DIA.	24 x 24	LAY-IN CEILING	1,2
D-4	Price	Supply	200-250	SPD	8" DIA.	24 x 24	LAY-IN CEILING	1,2
D-5	Price	Supply	75-125	SPD	6" DIA.	24 x 24	LAY-IN CEILING	1,2
D-6	Price	Supply	50	SPD	6" DIA.	24 x 24	LAY-IN CEILING	1,2
D-7	Price	Return	800	RCDA	12" DIA.	27" DIA.	OPEN CEILING; CONNECT TO DUCT	1,2
D-8	Price	Return	100-400	80	VARIES	VARIES	LAY-IN CEILING	1,2
D-9	Price	Exhaust	60-500	85	VARIES	24 X 24	LAY-IN CEILING	1,2
D-10	Price	Transfer	Varies	ATG-1	VARIES	VARIES	WALL/ CEILING	1,2

100% MAKEUP AIR UNIT SCHEDULE																			
MARK	MANUFACTURER AND MODEL	TON	CFM	ESP (INCH)	BHP	SUPPLY FAN HP	ELECT. VOLTAGE	GROSS COOLING	GROSS SCMS COOLING	GAS HEATING				COMPRESSOR				WEIGHT #	NOTES
										EMT ALK	GAS SUPPLY	LVG AIR	TEMP RISE	LRA	LRA	MCA	MOCp		
MAU #1	CARRIER 62DAB009 N8B3B-ADF	8	1385	0.89	0.53	1.0	208/3ø	98.44	61.28	27.0	80 MBH	80.7	53.7	23.3	164	36	50.0	1,920	1,2,3,4,5
MAU #2	CARRIER 62DAB009 N8B3B-ADF	8	1385	0.75	0.60	1.0	208/3ø	98.44	61.28	27.0	80 MBH	81.7	54.7	23.3	164	36	50.0	1,920	1,2,3,4,5

ROOF TOP UNIT SCHEDULE																				
MARK	MANUFACTURER AND MODEL	TON	OUTSIDE AIR CFM	SUPPLY FAN			COOLING					GAS HEATING		ELECTRICAL				VOLTS	WEIGHT #	NOTES
				CFM RANGE	ESP (INCH)	BHP	TOTAL GROSS MBH	SENSIBLE GROSS MBH	CONDENSER ENT AIR DB	ENT AIR WB	ARI EER/EER	INPUT MBH	OUTPUT MBH	COMPR- ESSORS	COMP RLA	MCA	MOCPP			
RTU-1	CARRIER 48HCSE11L2A5	10	900	3,400	0.70	1.94	113.48	92.74	98	81.6	12.00	180.0	120.0	1	15.9	53	60	230/3ø	1,457	1,2,3
RTU-2	CARRIER 48HCSE09L2A5OAJU	8.5	500	2,600	0.70	1.14	97.42	67.54	98	66.4	12.00	125.0	90.0	1	13.7	41	50	230/3ø	1,312	1,2,3
RTU-3	CARRIER 48HCSE09L2A5OAJU	8.5	500	2,600	0.70	1.14	97.42	67.54	98	66.4	12.00	125.0	90.0	1	13.7	41	50	230/3ø	1,312	1,2,3
RTU-4	CARRIER 48HCBS06L2A5OAIKO	5.0	200	2,000	0.70	1.59	58.03	46.59	98	65.4	15.20	72.0	50.0	1	15.9	28	40	230/3ø	866	1,2,3
RTU-5	CARRIER 48HCBS06L2A5OAIKO	5.0	300	2,000	0.30	1.24	57.77	49.44	98	65.1	15.20	72.0	50.0	1	15.9	28	40	230/3ø	866	1,2,3
RTU-6	CARRIER 48HCBS06L2A5OAIKO	5.0	300	2,200	0.30	1.57	57.44	50.12	98	64.2	15.20	72.0	50.0	1	15.9	28	40	230/3ø	866	1,2,3

#### RTU NOTES

- APPLY ROOF SYSTEM AND FLASHING WATER TIGHT ALL AROUND CURB.
- INSTALL 3/8" VIBRATION ISOLATING RUBBER GASKET CONTINUOUS AROUND BASE OF CURB.
- DUCT CONNECTION FRAME INTEGRAL TO ROOF CURB.

#### IMC 2012 TESTING:

PERFORM THE FOLLOWING TESTS PER IMC 2012:

506.3.2.5 GREASE DUCT TESTS –

- LEAKAGE TEST – PRIOR TO THE USE OR CONCEALMENT OF ANY PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEST SHALL BE PERFORMED. DUCTS SHALL BE CONSIDERED TO BE CONCEALED WHERE INSTALLED IN SHAFTS OR COVERED BY COATINGS OR WRAPS THAT PREVENT THE DUCTWORK FROM BEING VISUALLY INSPECTED ON ALL SIDES. THE PERMIT HOLDER SHALL BE RESPONSIBLE TO PROVIDE THE NECESSARY EQUIPMENT AND PERFORM THE GREASE DUCT LEAKAGE TEST. A LIGHT TEST SHALL BE PERFORMED TO DETERMINE THAT ALL WELDED AND BRAZED JOINTS ARE LIQUID TIGHT.
- A LIGHT TEST SHALL BE PERFORMED BY PASSING A LAMP HAVING A POWER RATING OF NOT LESS THAN 100 WATTS THROUGH THE ENTIRE SECTION OF DUCTWORK TO BE TESTED. THE LAMP SHALL BE OPEN SO AS TO EMIT LIGHT EQUALLY IN ALL DIRECTIONS PERPENDICULAR TO THE DUCT WALLS. A TEST SHALL BE PERFORMED FOR THE ENTIRE DUCT SYSTEM, INCLUDING THE HOOD-TO-DUCT CONNECTION. THE DUCT WORK SHALL BE PERMITTED TO BE TESTED IN SECTIONS, PROVIDED THAT EVERY JOINT IS TESTED. FOR LISTED FACTORY-BUILT GREASE DUCTS, THIS TEST SHALL BE LIMITED TO DUCT JOINTS ASSEMBLED IN THE FIELD AND SHALL EXCLUDE FACTORY WELDS.

507.16 PERFORMANCE TEST – A PERFORMANCE TEST SHALL BE CONDUCTED UPON COMPLETION AND BEFORE FINAL APPROVAL OF THE INSTALLATION OF A VENTILATION SYSTEM SERVING COMMERCIAL COOKING APPLIANCES. THE TEST SHALL VERIFY THE RATE OF EXHAUST AIRFLOW REQUIRED BY SECTION 507.13, MAKEUP AIRFLOW REQUIRED BY SECTION 508 AND PROPER OPERATION AS SPECIFIED IN THIS CHAPTER. THE PERMIT HOLDER SHALL FURNISH THE NECESSARY TEST EQUIPMENT AND DEVICES REQUIRED TO PERFORM THE TESTS.

507.16.1 CAPTURE AND CONTAINMENT TEST – THE PERMIT HOLDER SHALL VERIFY CAPTURE AND CONTAINMENT PERFORMANCE OF THE EXHAUST SYSTEM. THIS FIELD TEST SHALL BE CONDUCTED WITH ALL APPLIANCES UNDER THE HOOD AT OPERATING TEMPERATURES, WITH ALL SOURCES OF OUTDOOR AIR PROVIDING MAKEUP AIR FOR THE HOOD OPERATING AND WITH ALL SOURCES OF RECIRCULATED AIR PROVIDING CONDITIONING FOR THE SPACE IN WHICH THE HOOD IS LOCATED OPERATING. CAPTURE AND CONTAINMENT SHALL BE VERIFIED VISUALLY BY OBSERVING SMOKE OR STEAM PRODUCED BY ACTUAL OR SIMULATED COOKING, SUCH AS WITH SMOKE CANDLES, SMOKE PUFFERS, ETC.

#### SEQUENCE OF OPERATION:

EACH ZONE SHALL BE PROVIDED WITH 7-DAY PROGRAMMABLE THERMOSTATS. CONTROLS SHALL MAINTAIN PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER PERIOD OF 10 HOURS MINIMUM. CONTROLLER SHALL BE CAPABLE OF OCCUPIED/UNOCCUPIED HEATING AND COOLING CONTROL WITH THERMOSTATIC SETBACK CONTROLS. BOTH OUTDOOR AIR SUPPLY AND EXHAUST DUCTS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE.

TEMPERATURE AND HUMIDITY CONTROL  
COOLING/HEATING DINING: 75°F DB, 50% RH / 70°F DB  
COOLING/HEATING KITCHEN: 75°F DB, 50% RH / 70°F DB  
DEADBAND: +/- 5°F  
COOLING/HEATING SETBACK: 85°F / 60°F DB (SET-BACK 1-HR PRIOR TO OCCUPANCY IS ADJUSTED TO 80°F / 65°F DB).

SMOKE ALARM MODE  
UNIT WILL TURN OFF AND ACTIVATE AUDIO-VISUAL ALARM UPON ACTIVATION OF SMOKE ALARM. DUCT SMOKE DETECTORS TO PROVIDE SHUT DOWN IN 30 SECONDS OR LESS.

#### ECONOMIZER

ECONOMIZER WILL UTILIZE DIFFERENTIAL ENTHALPY CONTROL.

#### DIFFUSER NOTES

- FINISH TO MATCH ARCHITECTURAL SPECIFICATIONS.
- PROVIDE ALL REQUIRED MOUNTING FRAMES AND HARDWARE.

#### MECHANICAL NOTES:

- GENERAL NOTES:  
VISIT SITE AND BECOME FAMILIAR WITH THE EXISTING BUILDING CONDITIONS. INFORM THE ENGINEER OF ANY CONTINGENCIES WHICH INFLUENCE THE EXECUTION OF THE WORK. NO EXTRAS WILL BE ALLOWED DUE TO FAILURE TO MAKE THE ABOVE EXAMINATION OR NEGLECT TO INCLUDE ALL MATERIALS AND LABOR REQUIRED TO PROPERLY COMPLETE THE PROJECT.
- PERMITS, FEES AND CODE REGULATIONS:  
THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, OBTAIN ALL NECESSARY PERMITS, PAY ALL LEGAL FEES AND CHARGES PERTAINING TO THE WORK UNDER THIS SECTION, COMPLY WITH ALL NATIONAL CODES, STATE OR LOCAL MUNICIPAL BUILDING CODES, SAFETY LAWS, ORDINANCES AND REGULATIONS REGARDING BUILDING AND PUBLIC SAFETY APPLICABLE TO THE PROJECT.
- GUARANTEES:  
CONTRACTORS FOR THE VARIOUS PORTIONS OF THE WORK UNDER THIS SECTION SHALL GUARANTEE AND FURNISH WRITTEN CERTIFICATE TO THIS EFFECT, THAT ALL SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER AND THAT ANY AND ALL DEFECTS WHICH DEVELOP WITHIN ONE(1) YEAR, EXCEPTING NORMAL WEAR AND TEAR, WILL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- SHOP DRAWINGS, SUBMITTAL DRAWINGS AND RECORD DRAWINGS:  
SUBMIT SHOP DRAWINGS, SUBMITTAL DRAWINGS AND RECORD DRAWINGS TO ARCHITECT.
- CLARITY AND UNDERSTANDING OF CONTRACT DOCUMENTS:  
THE CONTRACTORS, BY SUBMITTING A BID, SHALL INDICATE THAT THEY HAVE THOROUGHLY REVIEWED THE DOCUMENTS AND IN THEIR OWN OPINION, AGREE THAT THE WORK SHOWN OR INDICATED THEREON IS FEASIBLE FOR A PROJECT OF THIS NATURE AND THAT EACH CONTRACTOR IS CAPABLE FINANCIALLY AND OTHERWISE, OF PERFORMING ALL THE WORK SHOWN.
- SCOPE OF WORK:  
PROVIDE NEW HVAC SYSTEM AS SHOWN ON THE DRAWINGS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES AND TO PRESENT A NEAT, WORKMANLIKE APPEARANCE. INTERFERENCES WHICH RESULT FROM POOR COORDINATION WILL NOT BE CONSIDERED AS EXTRA WORK. ALL MINOR DEVIATIONS REQUIRED DUE TO INTERFERENCES WITH THE WORK OF OTHERS SHALL BE MADE BY HVAC CONTRACTOR AT NO EXTRA COST.
- THE DRAWINGS ARE SCHEMATIC IN NATURE AND SHOW APPROXIMATE LOCATIONS OF EQUIPMENT. DUCTWORK INDICATED THEREON IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATIONS OF NEW EQUIPMENT, DUCTWORK ETC.
- INSTALL AHU'S AND DUCTWORK TO PROVIDE CLEARANCE FOR FIXTURES. PROVIDE ISOLATION DAMPERS TO REDUCE NOISE TRANSMISSION TO STRUCTURAL MEMBERS. USE FLEX CONNECTIONS BETWEEN AHU'S AND DUCTS.
- ALL DUCTWORK NOT LOCATED IN THE AIRCONDITIONED SPACE SHALL BE INSULATED ON THE OUTSIDE WITH A MINIMUM OF 1-INCH THICK INSULATION. DUCT CONSTRUCTION SHALL CONFORM TO ASHRAE OR SMACNA STANDARDS. DUCT SHALL BE #1 GALVANIZED IRON. LOW VELOCITY FLEXIBLE CONNECTIONS SHALL BE FLEXMASTER, TRIPLE LOCK FLEXIBLE ALUMINUM DUCT, MAX LENGTH 6-FT. CONNECTIONS EXCEEDING 6-FT SHALL BE W/ 1" RIGID FIBERGLASS DUCT W/VAPOR BARRIER TO WITHIN 6 FT OF DIFFUSER. DUCT SIZES SHOWN ARE NET.
- WHERE SUPPLY OR RETURN GRILLES OR DIFFUSERS ARE INSTALLED IN FIRE RATED WALL OR CEILING, INSTALL FIRE DAMPER AHEAD OF IT AS A PART OF THE DIFFUSER OR GRILL.
- INSTALL FIRE DAMPER WHEREVER FIRE WALLS ARE PENETRATED BY DUCTWORK.
- ALL AHU'S/ RTU'S SHALL HAVE SMOKE DETECTORS OR PRESTAT THAT SHUT DOWN UNIT WHEN ACTIVATED. FURNISH TEST AND INDICATOR CIRCUITS.
- INSTALL VOLUME DAMPERS IN ALL DIFFUSERS OR IN THE NECK SECTION OF DIFFUSERS (OPPOSED BLADE DAMPER).
- DUCT DIMENSIONS ARE TYPICAL AND MAY BE ADJUSTED TO FIT CONSTRUCTION METHOD AND LOCATION WITHOUT DECREASING THE CROSS-SECTIONAL AREA SPECIFIED. VERIFY CLEARANCES THROUGH ALL STRUCTURAL OPENINGS BEFORE FABRICATION.
- ALL T-STAYS SHALL HAVE LOCKABLE COVERS. VERIFY LOCATION W/ ARCHITECT BEFORE INSTALLING. INSTALL @ 48" AFF.
- ROUTE CONDENSATE DRAIN AS SHOWN OR TO NEAREST FLOOR DRAIN.
- ALL DUCT SIZES SHOWN ARE CLEAR AIR STREAM DIMENSIONS.
- DO NOT FABRICATE DUCT FROM THESE DRAWINGS. FIELD VERIFY ALL DIMENSIONS, AND AVAILABLE SPACE. DIMENSIONS GIVEN ON DRAWINGS ARE INSIDE FREE AREA. BALANCE DAMPERS IN ALL SUPPLY AND RETURN BRANCHES. BRANCH TAKEOFFS SHALL HAVE 45 DEGREE ENTRY FITTING W/VOLUME DAMPER.
- COORDINATE ALL WORK INDICATED WITH ALL OTHER TRADES INVOLVED IN THIS PROJECT, AS NECESSARY: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY DIMENSIONS, WORKING CLEARANCES, AND THE WORKING ARRANGEMENT OF EQUIPMENT, AS WELL AS THE LOCATIONS OF THE EQUIPMENT, AND ASSOCIATED DUCTWORK, PIPING, ETC., AND TO COORDINATE THE INSTALLATION ACCORDINGLY.
- CONTRACTOR SHALL PROVIDE ALL HVAC UNITS, EXHAUST FANS, SENSORS, CONTROLS, AND ALL OTHER DEVICES AND EQUIPMENT FOR COMPLETE AND FULLY OPERATIONAL SYSTEMS, UNLESS SPECIFICALLY NOTED AS FURNISHED BY OTHERS. ALL EQUIPMENT USED ON THIS PROJECT IS TO BE UL LISTED AND BEAR THE UL 710 LISTED LABEL.
- HVAC WORK SHALL INCLUDE FURNISHING (EXCEPT WHERE NOTED), INSTALLING, AND TESTING ALL HVAC SYSTEMS FOR A COMPLETE, FULLY OPERATIONAL, AND CODE COMPLIANT INSTALLATION INCLUDING, BUT NOT LIMITED TO:  
A. MANUFACTURER'S STANDARD ROOF CURBS OR AS SPECIFIED,  
B. ROOF OPENINGS,  
C. COPPER CONDENSATE DRAINS WITH MINIMUM 3" TRAP DEPTH (U.N.O.) AND PROPER SLOPE, GAS PIPING SUPPORTED EVERY 10 FEET, AND OTHER PIPING AND FITTINGS,  
D. DUCTWORK, TURNING VANES, SPLITTERS, DAMPERS, SPIN-INS, ETC. IN ACCORDANCE WITH SMACNA STANDARDS FOR LOCATION, THICKNESS, AND CONSTRUCTION,  
E. DIFFUSERS, SUPPLY AND RETURN GRILLES,  
F. LINE SETS, AUXILIARY DRAIN PANS AND PIPING, AND FRESH AIR INTAKE FOR EACH AIR HANDLER IN SPLIT SYSTEMS (IF USED),  
G. CONTROLS, SENSORS, AND LOW VOLTAGE WIRING (E.G. 8-STRAND, 18 AWG. NON-SHIELDED CABLE),  
H. SHIMS AND MISCELLANEOUS STEEL FOR LEVEL INSTALLATION AND PROPER CONDENSATE DRAINAGE,  
I. SMOKE DETECTORS IN RETURN AIR DUCTS OR SUPPLY DUCTS AS REQUIRED BY LOCAL CODE OFFICIALS,  
J. WEATHER-PROOF ROOF AND WALL PENETRATIONS FOR COPPER PIPING, MAKE-UP AIR, PADS,  
K. SHIMS AND MISCELLANEOUS STEEL FOR LEVEL INSTALLATION AND PROPER CONDENSATE DRAINAGE,
- SMOKE DETECTORS IN RETURN AIR DUCTS OR SUPPLY DUCTS AS REQUIRED BY LOCAL CODE OFFICIALS.
- WEATHER-PROOF ROOF AND WALL PENETRATIONS FOR COPPER PIPING, MAKE-UP AIR, PADS.
- CONTRACTOR SHALL VERIFY PLACEMENT AND SUPPORT OF ROOFTOP AIR CONDITIONING UNITS, EXHAUST FANS, CONDENSING UNITS, AND ALL OTHER ROOF SUPPORTED EQUIPMENT PRIOR TO FABRICATION OF DUCTWORK. CONTRACTOR SHALL PROVIDE MISCELLANEOUS STRUCTURAL STEEL SUPPORT FOR ROOFTOP, SUSPENDED, AND WALL-MOUNTED EQUIPMENT AND COORDINATE FINAL LOCATIONS OF EQUIPMENT WITH EXISTING CONDITIONS, E.G. JOIST/TRUSS LOCATIONS, AND WITH LANDLORD WHERE REQUIRED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, SEALED BY THE STRUCTURAL ENGINEER, FOR EQUIPMENT SUPPORT.
- SUBMITTALS AND SUBSTITUTIONS: THE CONTRACTOR SHALL SUBMIT INFORMATION TO

THE ENGINEER FOR ALL EQUIPMENT, DEVICES, AND PIPING COMPONENTS INTENDED TO BE PROVIDED FOR THIS PROJECT. ALL SUBSTITUTIONS FOR EQUIPMENT AND MATERIALS OTHER THAN WHAT IS SPECIFIED SHALL BE SUBMITTED FOR REVIEW PRIOR TO PURCHASE AND/OR INSTALLATION.

UNLESS OTHERWISE SPECIFIED, ALL REQUIRED CUTTING AND PATCHING OF FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE BUILDING IS TO BE INCLUDED IN THE SCOPE. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION UPON COMPLETION. ALL PENETRATIONS OF WALLS, CEILINGS, OR FLOORS SHALL BE CORE-DRILLED, SLEEVED, AND SEALED TO COMPLY WITH RESPECTIVE BUILDING CODE REQUIREMENTS. ALL PENETRATIONS THROUGH FIRE RATED WALL SHALL COMPLY WITH UL LISTED SLEEVE ASSEMBLY REQUIREMENTS.

THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.

ALL CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPARATUS REQUESTED BY THE BUILDING REPRESENTATIVE, ARCHITECT OR AS NOTED TO BE RELOCATED ON THE DRAWINGS SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.

DUCTWORK IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF DUCTWORK TO AVOID OBSTRUCTIONS. EXACT LOCATIONS ARE SUBJECT TO APPROVAL OF ARCHITECT. COORDINATION WITH OTHER TRADES IS REQUIRED.

ALL DUCT SIZES SHOWN ARE INSIDE, FREE AREA DIMENSIONS REQUIRED FOR PROPER AIRFLOW. UNLESS SPECIFICALLY INDICATED, ALL DUCT TRANSITIONS SHALL BE SMOOTH AND GRADUAL WITH MAXIMUM DIVERGENT ANGLE OF 15°.

SUPPORT ALL DUCTWORK FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTER OR SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING. INSTALL DUCTWORK AS HIGH AND TIGHT TO THE STRUCTURE AS POSSIBLE.

PROVIDE VOLUME DAMPER AT CONNECTION OF DIFFUSER BRANCH INCLUDING THOSE CONNECTING TO THE BOTTOM OF MAIN TRUNK.

PROVIDE TURNING VANES IN ALL ELBOWS IN SUPPLY ALL ELBOWS IN SUPPLY AIR DUCT.

ALL FLEXIBLE DUCTWORK SHALL BE STRETCHED AND SUSPENDED IN ACCORDANCE WITH LOCAL CODE. SUPPORT EVERY 3' WITH 2" WIDE GALVANIZED STEEL BANDS (MAX. SAC ¼" BETWEEN SUPPORTS). MAX. LENGTH OF DUCT SHALL BE SIX (6) FEET.

CONTRACTOR SHALL COVER ALL HVAC UNITS, ALL RELATED DISTRIBUTION EQUIPMENT AND ALL DUCT OPENINGS DURING STORAGE AT CONSTRUCTION SITE AND AT THE TIME OF ROUGH INSTALLATION UNTIL FINAL STARTUP TO PREVENT DIRT, DEBRIS, CONSTRUCTION DUST, AND MOISTURE FOR ENTERING.

CONTRACTOR SHALL NOT OPERATE A/C UNITS WITHOUT CONSTRUCTION FILTERS IN PLACE. REPLACE ALL FILTERS AFTER CONSTRUCTION AND BEFORE REQUESTING FINAL PAYMENT WITH MINIMUM MERV 8 FILTERS.

REMOVABLE ACCESS TILE AND/OR ACCESS DOOR ARE REQUIRED IN HUNG CEILINGS, SHEDS AND WALLS FOR ALL VOLUME AND FIRE DAMPERS, AUTOMATIC DAMPERS AND ALL OTHER MECHANICAL EQUIPMENT AND DEVICES. HVAC CONTRACTOR TO FURNISH ACCESS LOCATION REQUIREMENTS TO GENERAL CONTRACTOR. ACCESS TILE IDENTIFICATION: PROVIDE BUTTONS, TABS, AND MARKERS TO IDENTIFY LOCATION OF CONCEALED DAMPERS AND EQUIPMENT.

CONTRACTOR SHALL PROVIDE CURBS/SEALS, FLASHING, EXPANSION DUCTS, WEATHER CUPS, ETC. FOR ALL EXTERIOR MOUNTED EQUIPMENT AND PENETRATIONS TO MAKE WEATHER-PROOF AND WATER-TIGHT. COORDINATE WITH PENETRATIONS FOR ELECTRICAL SERVICE TO MOTORIZED EQUIPMENT. COMPLY WITH THE OWNER/LANDLORD AND THE OWNER'S/LANDLORD'S ROOFING CONTRACTOR TO MAINTAIN ROOF WARRANTY.

CONTRACTOR SHALL PROVIDE THERMOSTATS AND REMOTE SENSORS FOR NEW COOLING AND HEATING EQUIPMENT. DO NOT INSTALL THERMOSTATS OR SENSORS CLOSE TO HEAT AND/OR STEAM PRODUCING APPLIANCES.

CONTRACTOR SHALL INSULATE SUPPLY GRILLES/DIFFUSERS IN THE PLENUM SIDE TO PREVENT CONDENSATION OR PROVIDE INSULATED SUPPLY GRILLES/DIFFUSERS.

PAINIT ALL SUPPLY AND RETURN AIR DEVICES AS REQUIRED BY THE OWNER.

ALL DUCTWORK SHALL BE SEALED FOR SEAL CLASS B AND LEAK TESTED AT THE RATED PRESSURE.

FIRE DAMPERS MUST BE INSTALLED AT ALL LOCATIONS WHERE DUCT PENETRATES A FIRE RATED WALL. PROVIDE SMOKE/FIRE DAMPERS FOR AN EGRESS. PROVIDE ACCESS DOORS AS REQUIRED. FIRE DAMPERS TO BE OF TYPE APPROVED BY THE AGENCIES HAVING JURISDICTION.

PROVIDE MAXIMUM 6" WIDE FLEXIBLE CONNECTOR FOR VIBRATION ISOLATION TO CONNECT DUCTS TO ROTATING EQUIPMENT INCLUDING HANDLING UNITS, FAN COIL UNITS, FANS, ROOF TOP UNITS, AND WHERE INDICATED ON THE DRAWINGS.

CONTRACTOR SHALL NOT LOCATE ANY FRESH AIR INTAKE AND MAKE-UP AIR INTAKE WITHIN TEN (10) FEET OF ANY EXHAUST OR VENT DISCHARGE.

CONTRACTOR SHALL FURNISH EQUIPMENT DISCONNECTS WHERE THEY ARE NOT FURNISHED BY EQUIPMENT MANUFACTURER. CONTRACTOR SHALL INSTALL ALL DISCONNECTS AND MAKE FINAL CONNECTION.

SEAL OPENINGS AROUND DUCTS AND PIPING THROUGH PARTITIONS, WALLS AND FLOORS (NOT IN SHAFTS) WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL.

CONTRACTOR SHALL PERFORM TESTING, ADJUSTING, AND BALANCING (T.A.B.) OF ALL AIR SYSTEMS. CONTRACTOR SHALL ALSO PERFORM T.A.B. OF ALL CHILLED OR CONDENSER WATER SYSTEMS (WHERE SHOWN OR SPECIFIED). USE A.A.B.C. OR N.E.B.B. CERTIFIED TECHNICIANS AND PROVIDE A WRITTEN REPORT OF RESULTS TO TENANT (AND LL IF APPLICABLE) PRIOR TO REQUEST FOR FINAL PAYMENT. THE TAB AGENCY SHALL SUBMIT TO THE OWNER (6) COPIES OF A WRITTEN REPORT WITHIN 10 DAYS AFTER THE INSPECTION IS COMPLETE.

CONTRACTOR SHALL DEVELOP AND MAINTAIN A SET OF RED-LINED "AS BUILT" DRAWINGS AT THE PROJECT CONSTRUCTION SITE AND MADE AVAILABLE TO THE ARCHITECT/ENGINEER UPON REQUEST. RED-LINED DRAWINGS MUST BE KEPT CURRENT AND REFLECT ALL ACTUAL ASPECTS OF THE INSTALLATION THAT DEVIATE FROM RECORD DESIGN DRAWINGS. RED-LINED DRAWINGS SHALL INCLUDE ALL PUNCH-LIST ITEMS AND TESTING, AND SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AT THE COMPLETION OF THE PROJECT.

#### NOTES

- DO NOT EXCEED FLEX DUCT MORE THAN 6'-0". WHEN LENGTH IS GREATER THAN 6'-0", USE ROUND DUCT W/FLEX CONNECTION ( 1 1/2" THK. BLANKET INSULATION W/ VAPOR BARRIER & ALUM. DUCT TAPE).
- ALL REGISTERS 24" X 24" EXCEPT AS NOTED.
- COMPLETE KITCHEN EXHAUST AND SUPPLY AIR SYSTEM SHALL COMPLY WITH ALL REQUIREMENTS OF NFPA-96.
- ALL HOOD EXHAUST DUCT SHALL BE BLACK OR STAINLESS STEEL, WELDED CONSTRUCTION WITH ACCESS PANELS AT EVERY CHANGE IN DIRECTION.
- ALL DUCTWORK AT SEATING AND SALES AREAS SHALL BE SPIRAL STEEL ROUND DUCTS AND SHALL BE EXTERNALLY INSULATED WITH 1½" THK FIBERGLASS INSULATION WITH VAPOR BARRIER. ALL EXPOSED DUCTS, GRILLES AND SUPPORTS SHALL BE PAINTED MATT BLACK COLOR. DUCTWORK SHALL BE FABRICATED ACCORDING TO THE LATEST EDITION OF SMACNA AND ASHRAE STANDARDS.

SCALE : NO SCALE

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DRAWN:

CHECKED:

DATE : JAN 2018

NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

#### ISSUE

06-12-18 I.F.P.



MECH. NOTES & SCHEDULES

**WADHWA AND ASSOCIATES, INC.**  
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#### REVISIONS



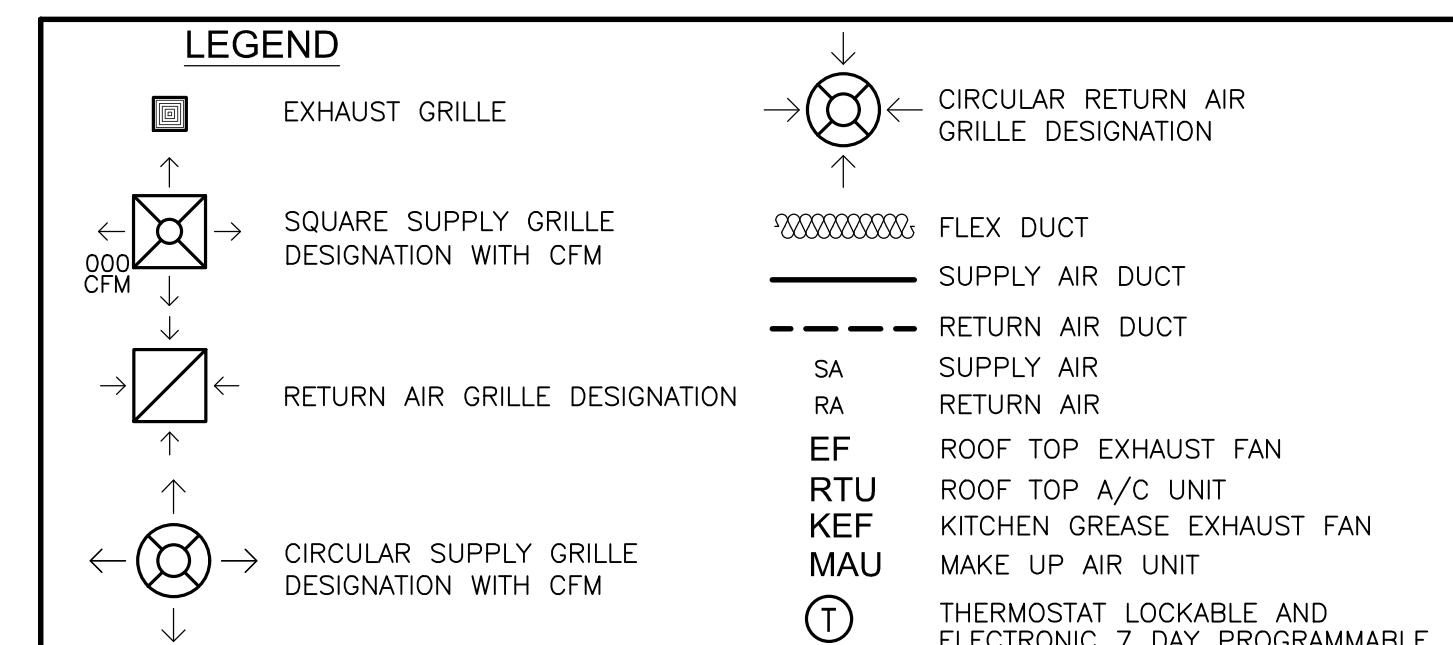
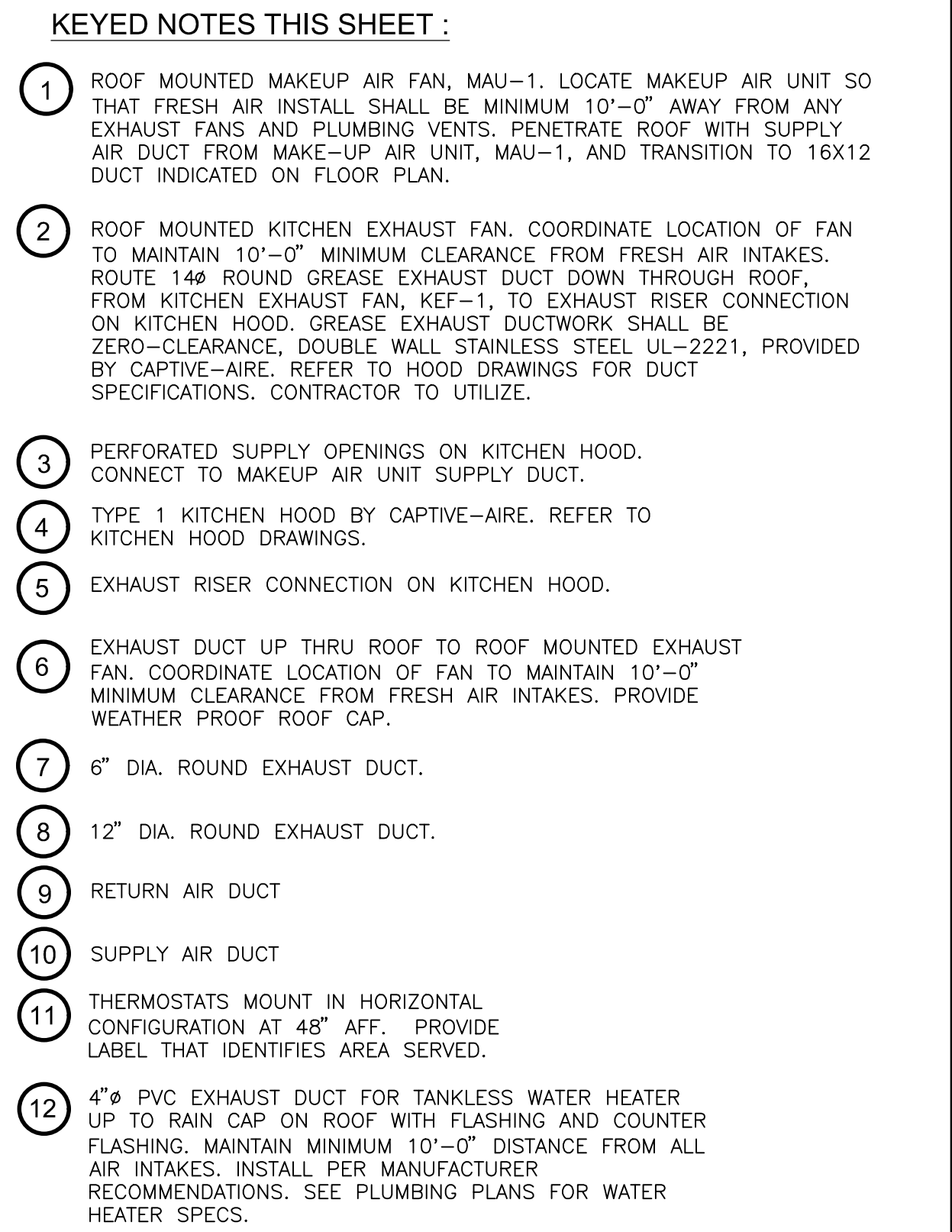
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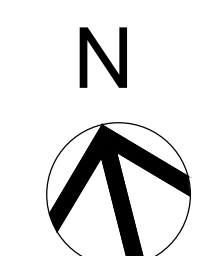


**NOTE:**

PROVIDE FOR ALL RTU'S DUCT MOUNTED SMOKE DETECTORS IN RETURN AIR DUCT TO PROVIDE FAN SHUTDOWN UPON DETECTION. PROVIDE REMOTE TEST STATION FOR EACH UNIT TO ALLOW SHUTDOWN OF THE HVAC UNIT (SIMULATING THE DETECTION OF SMOKE) AND INDICATION OF SHUTDOWN OF THE UNIT IN MANAGERS OFFICE.

**NOTES:**

- SEE SHEET A1.3 FOR WALL TYPES.
- SEE SHEET A7 DOORS AND WINDOWS SCHEDULE.
- SEE SHEET A7.1 FOR ROOM FINISH SCHEDULE.



SCALE : 3/16" = 1' - 0"

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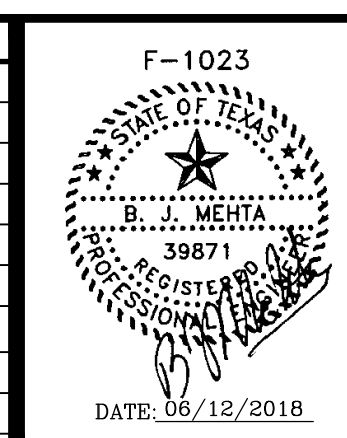
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06-12-18 I.F.P.



**MECHANICAL PLAN**

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**WA** **WADHWA AND ASSOCIATES, INC.**  
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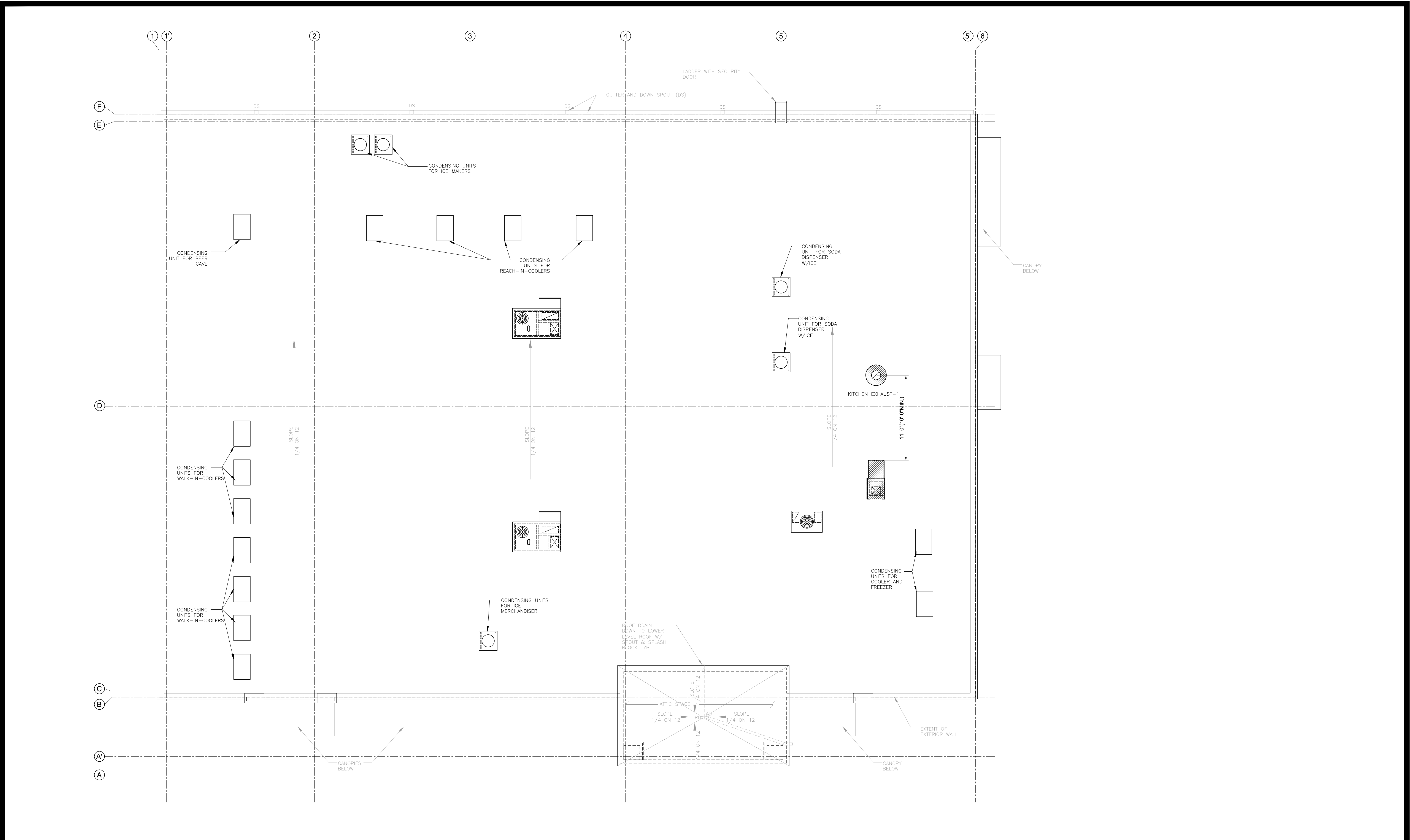
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JOB NO.  
18-02-003

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SHEET NO.  
**M1**

FOOD MART, BAYSHORE



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DATE : JAN 2018

# NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

ISSUE
06-12-18 I.F.P.

F-1023

STATE OF TEXAS

REGISTERED PROFESSIONAL ARCHITECT

B. J. MEHTA

39871

DATE: 06/12/2018

## MECHANICAL ROOF PLAN

**WA**

WADHWA AND ASSOCIATES, INC.

architects, planners  
and construction administration

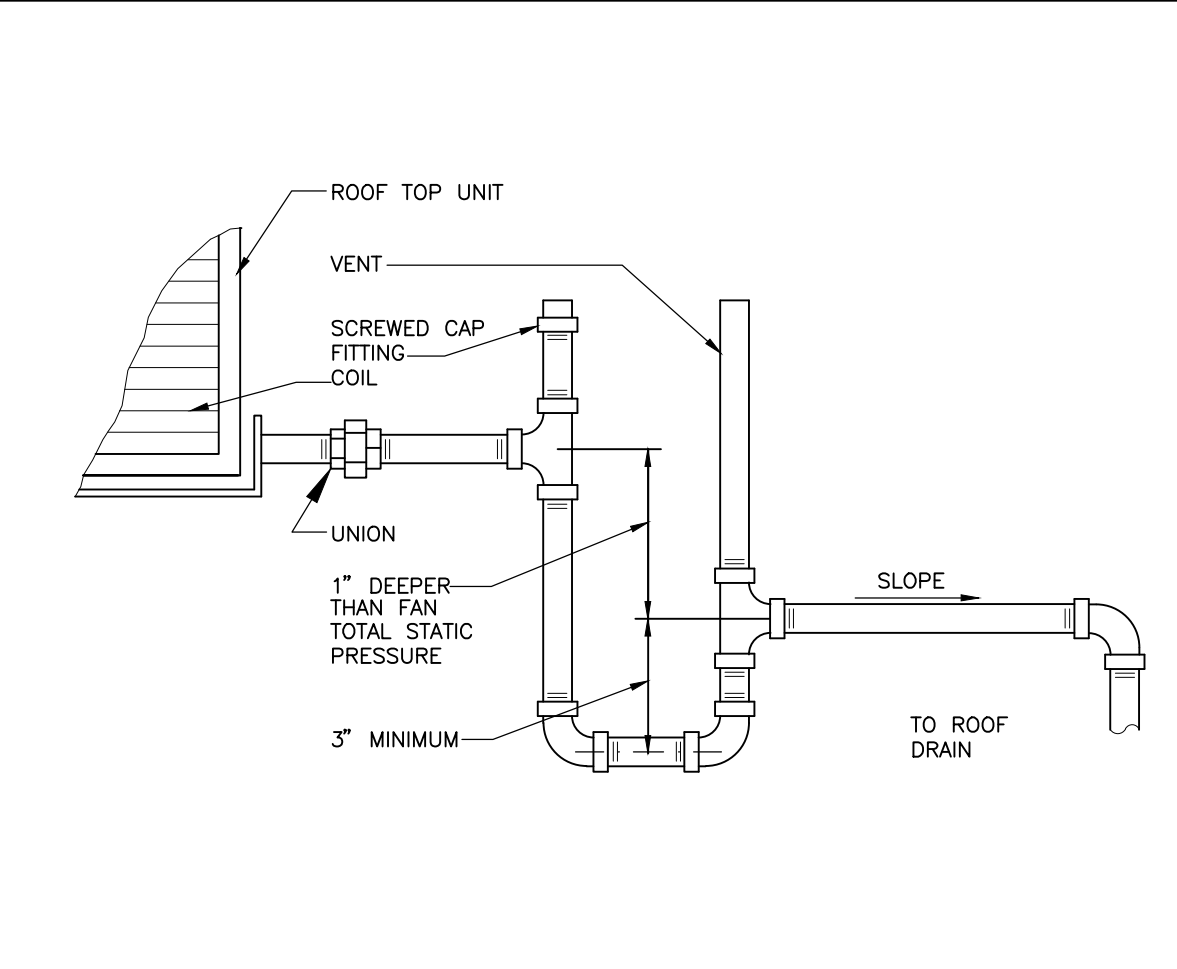
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REVISIONS

JOB NO.  
18-02-003

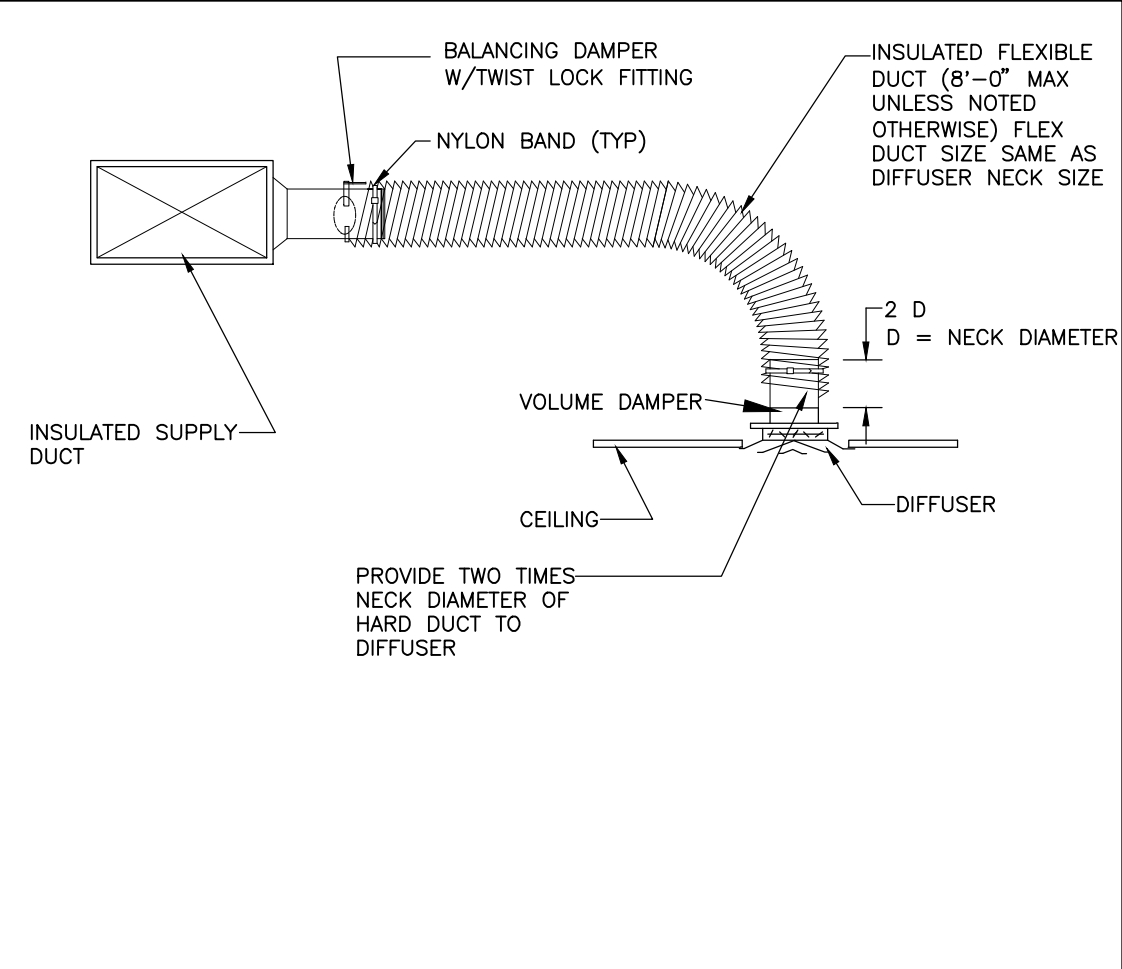
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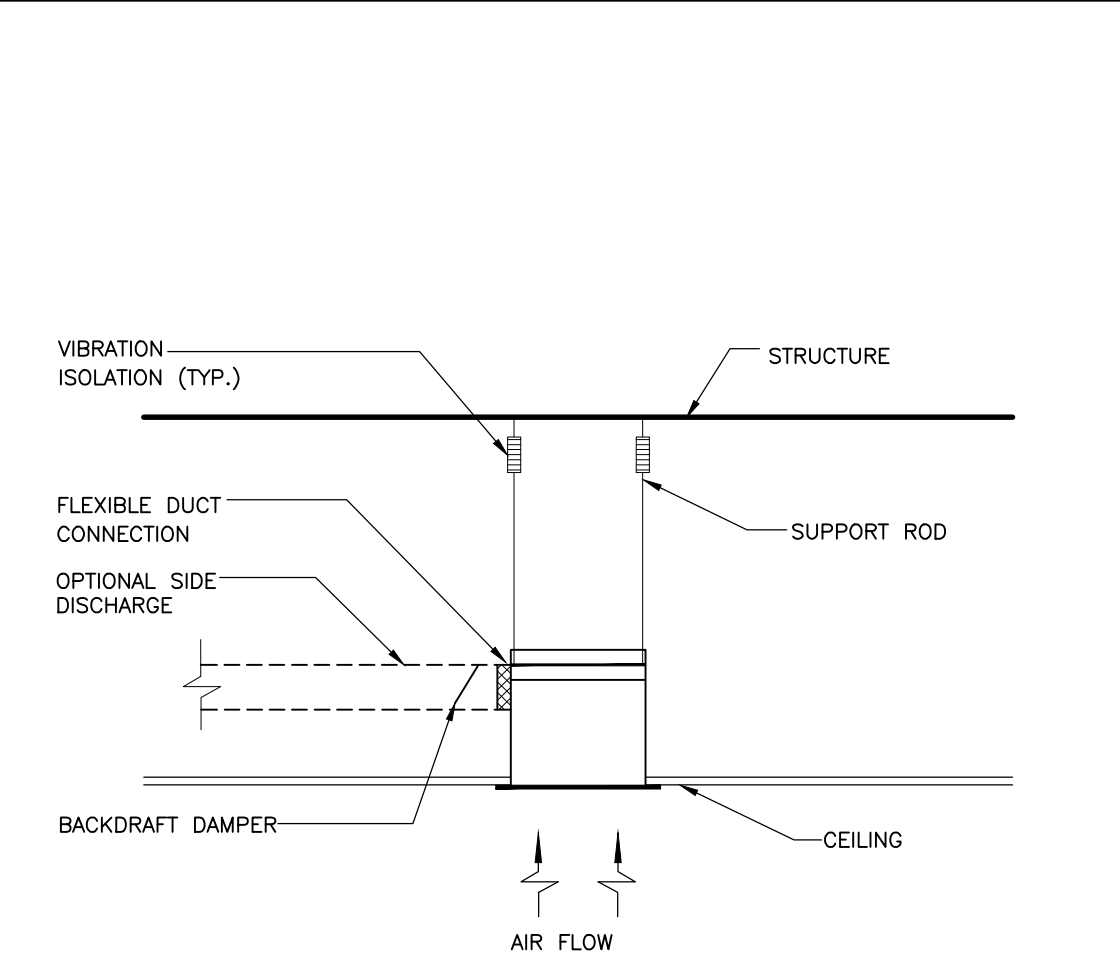
RTU DRAIN DETAIL

SCALE: N.T.S.



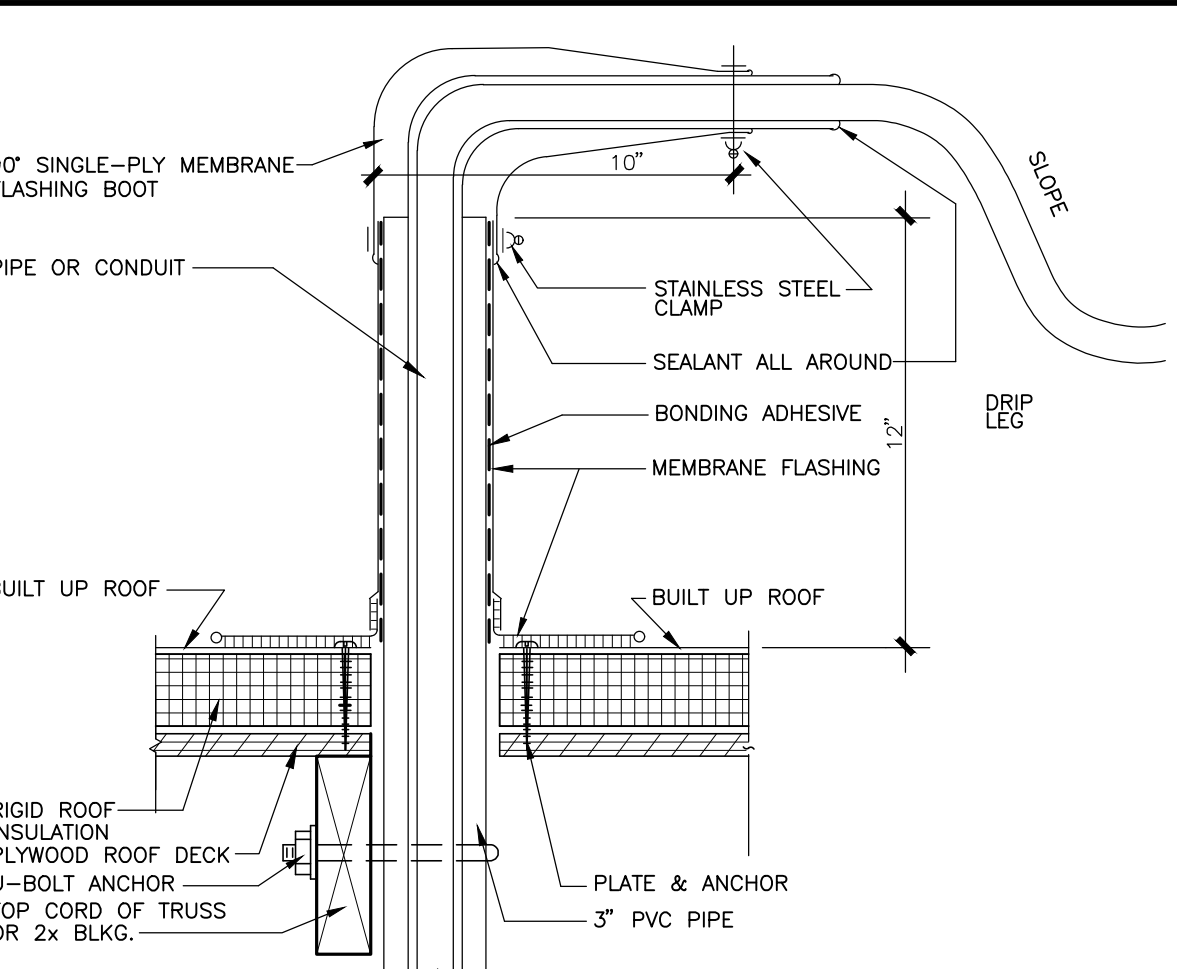
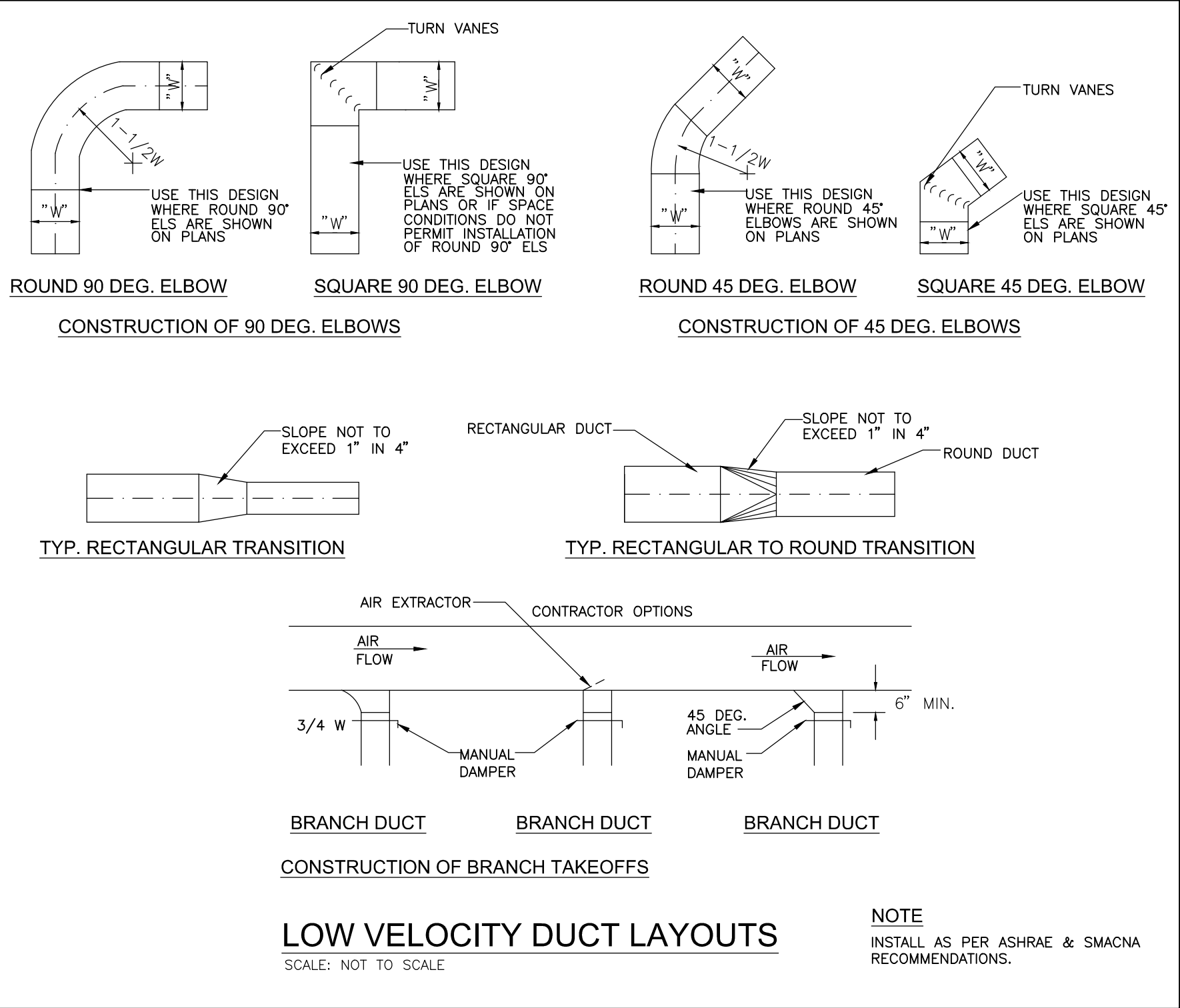
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SCALE: N.T.S.



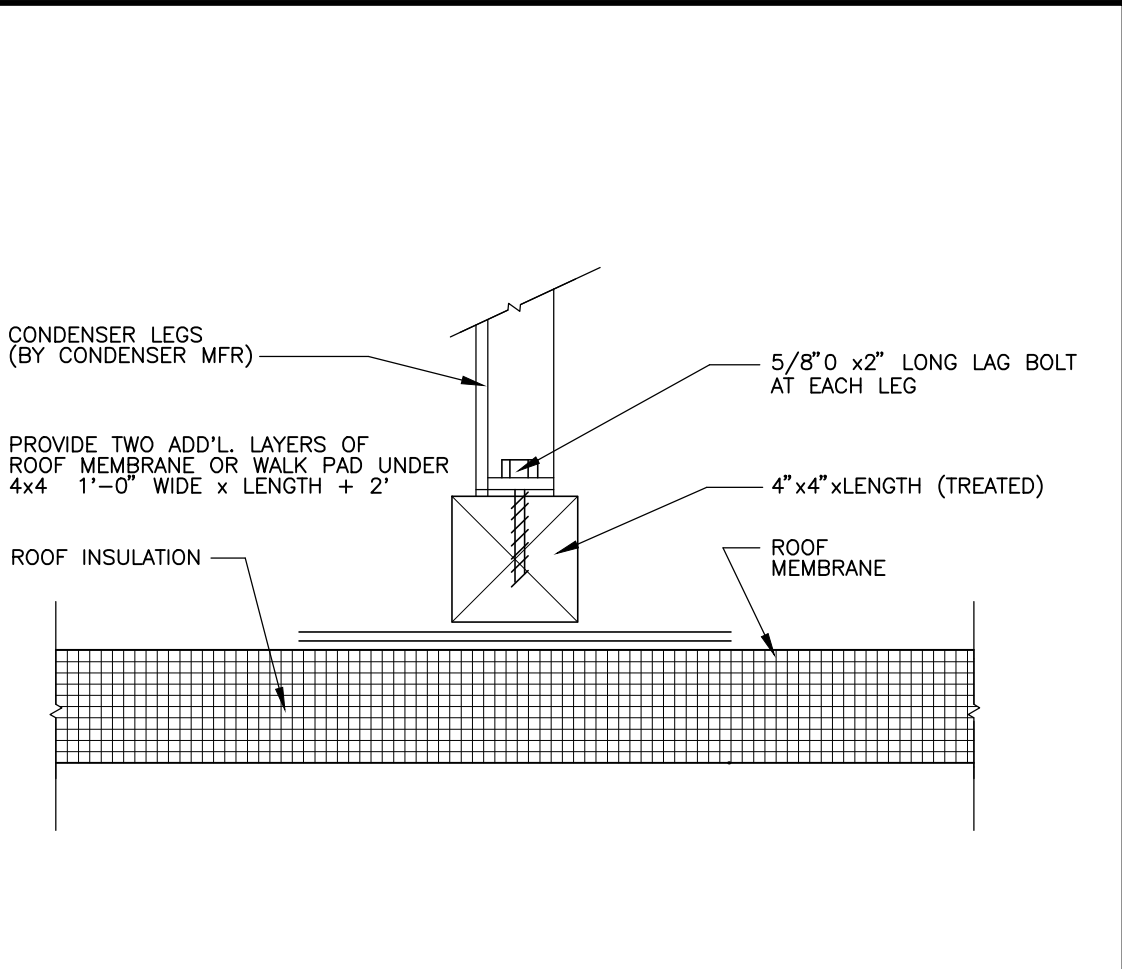
TYPICAL CEILING EXHAUST FAN DETAIL

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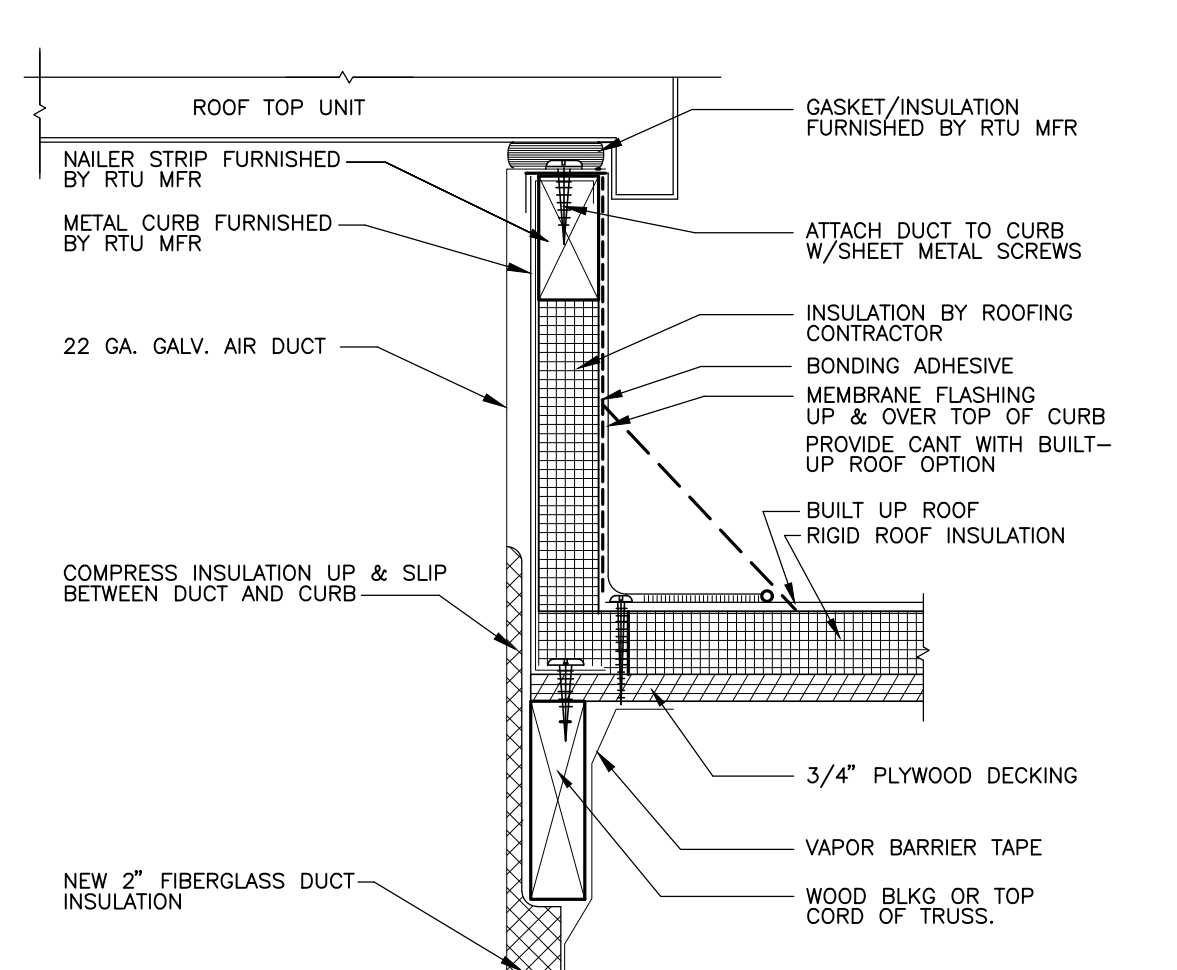
FLASHING DETAIL FOR CONDUIT AT ICE CONDENSER

SCALE: N.T.S.



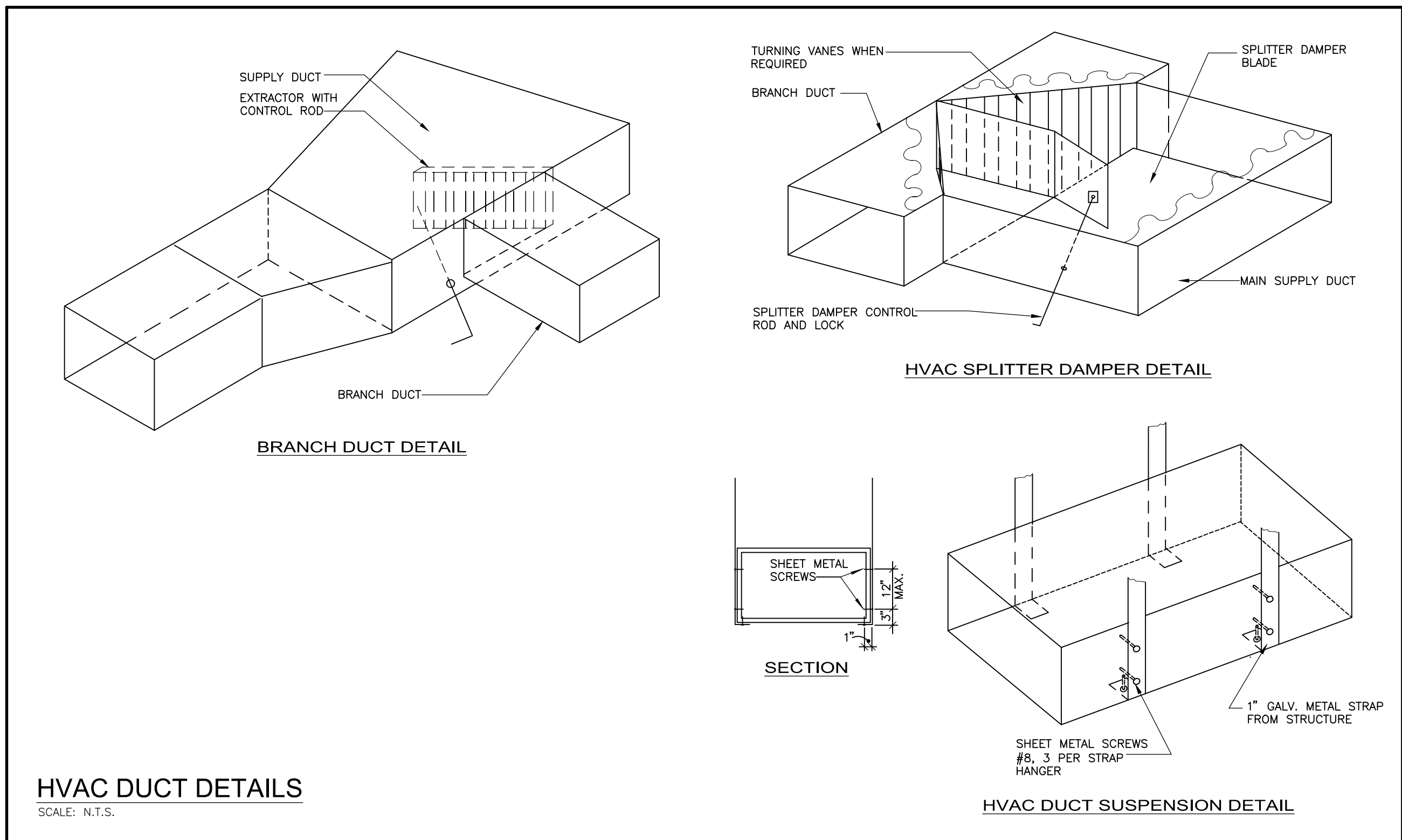
CONDENSER SUPPORTS DETAIL

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RTU CURB DETAIL

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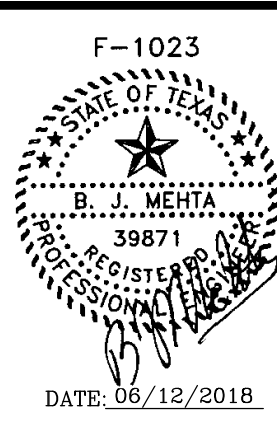
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HVAC DETAILS

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REVISIONS

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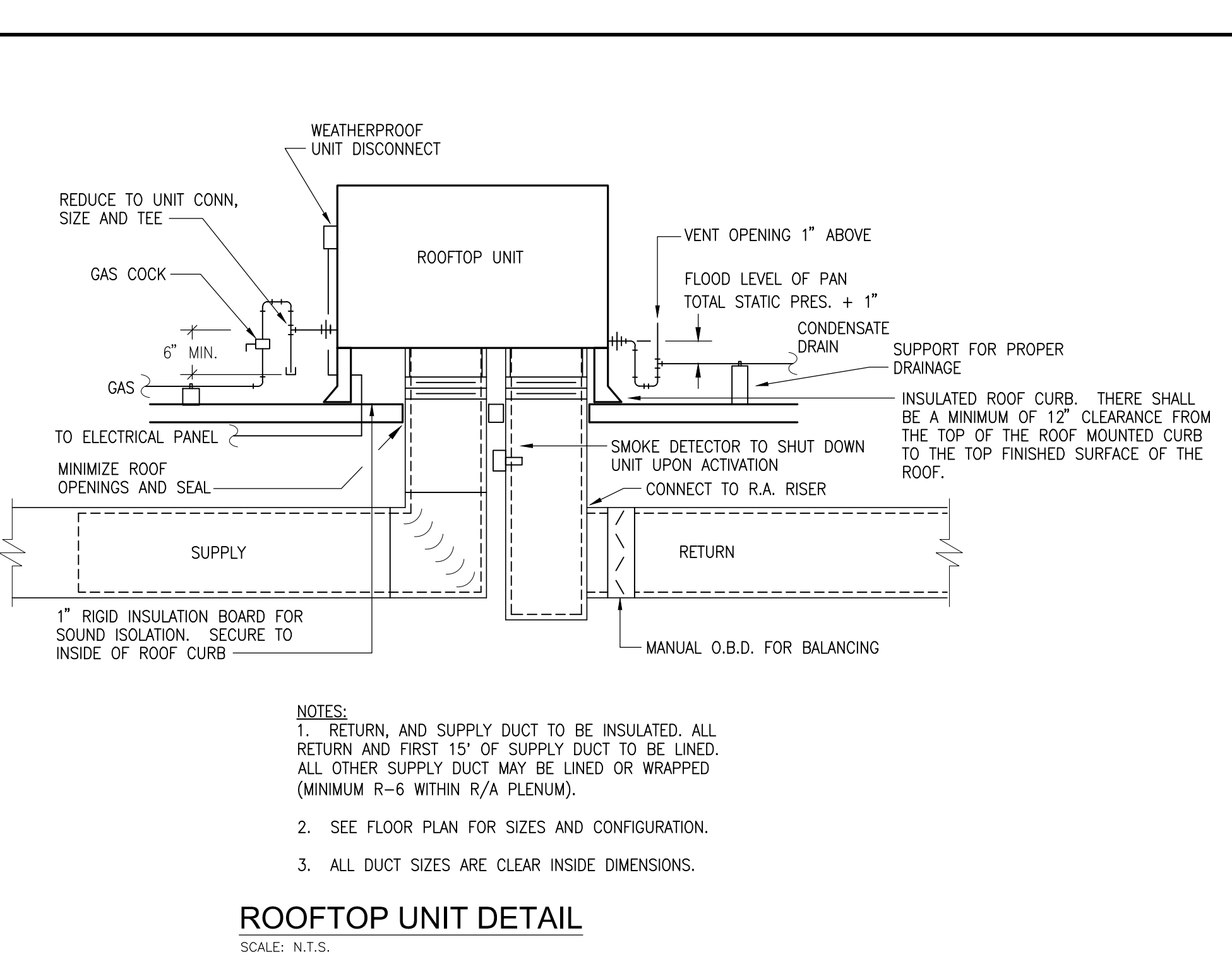
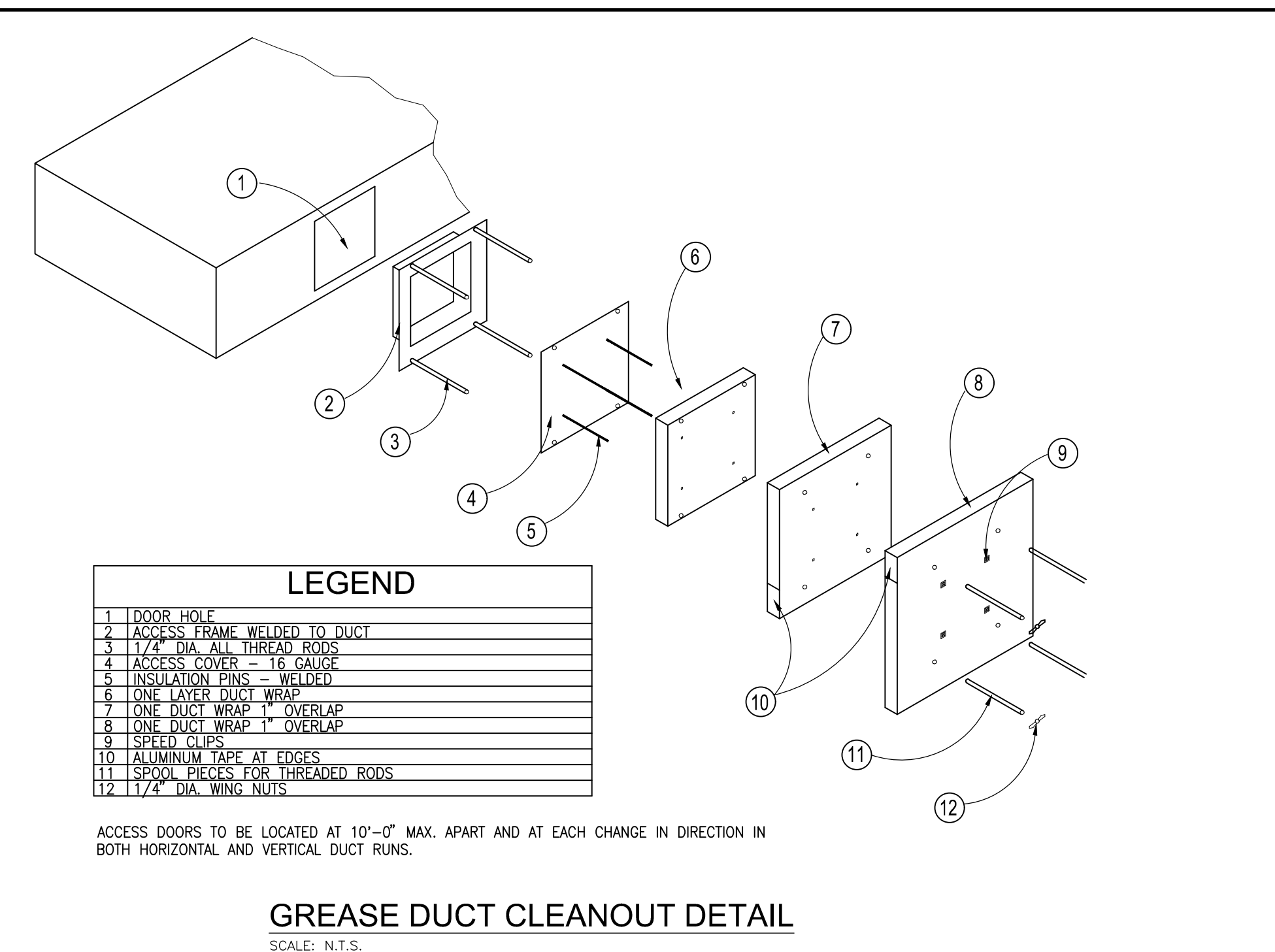
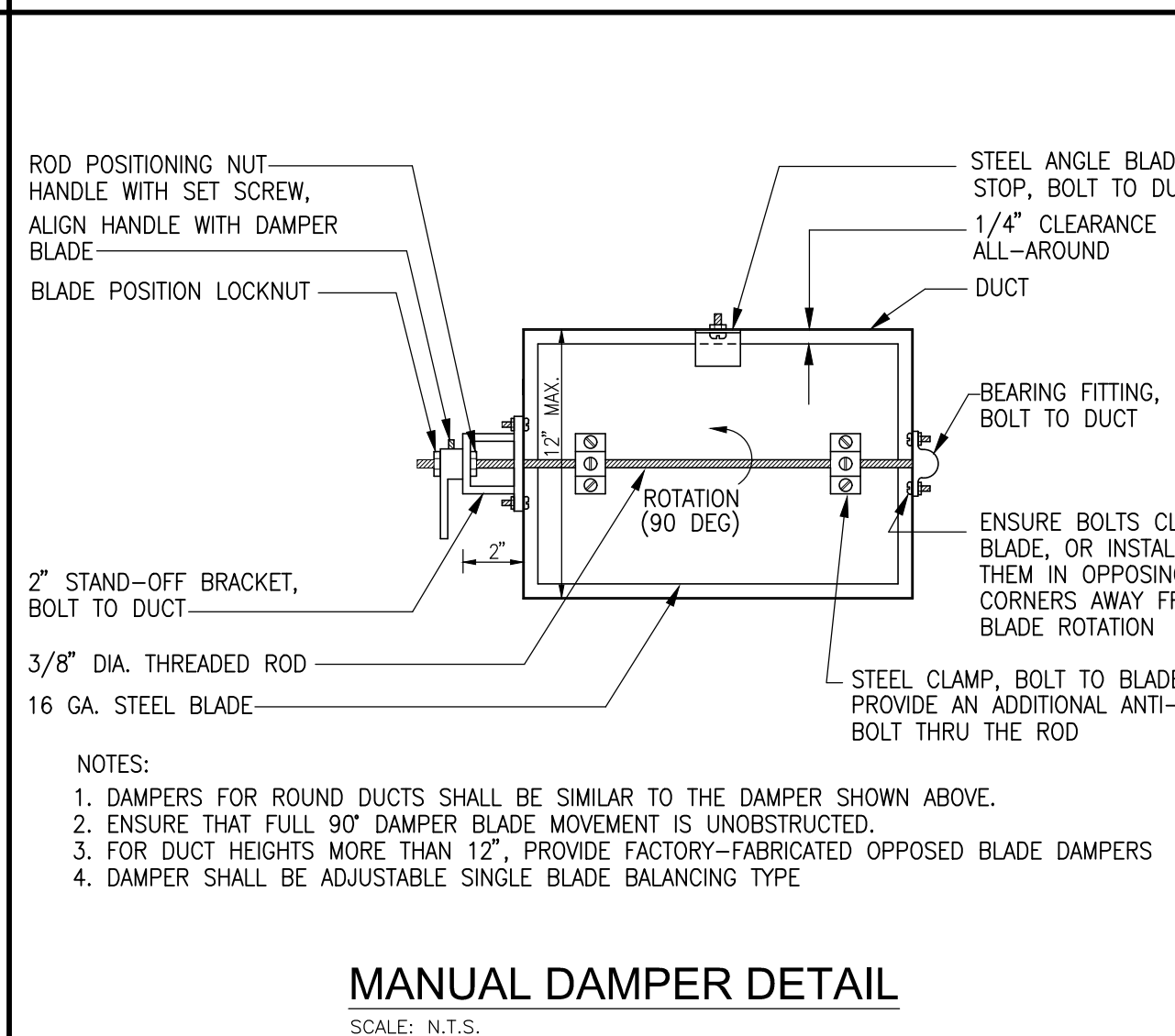
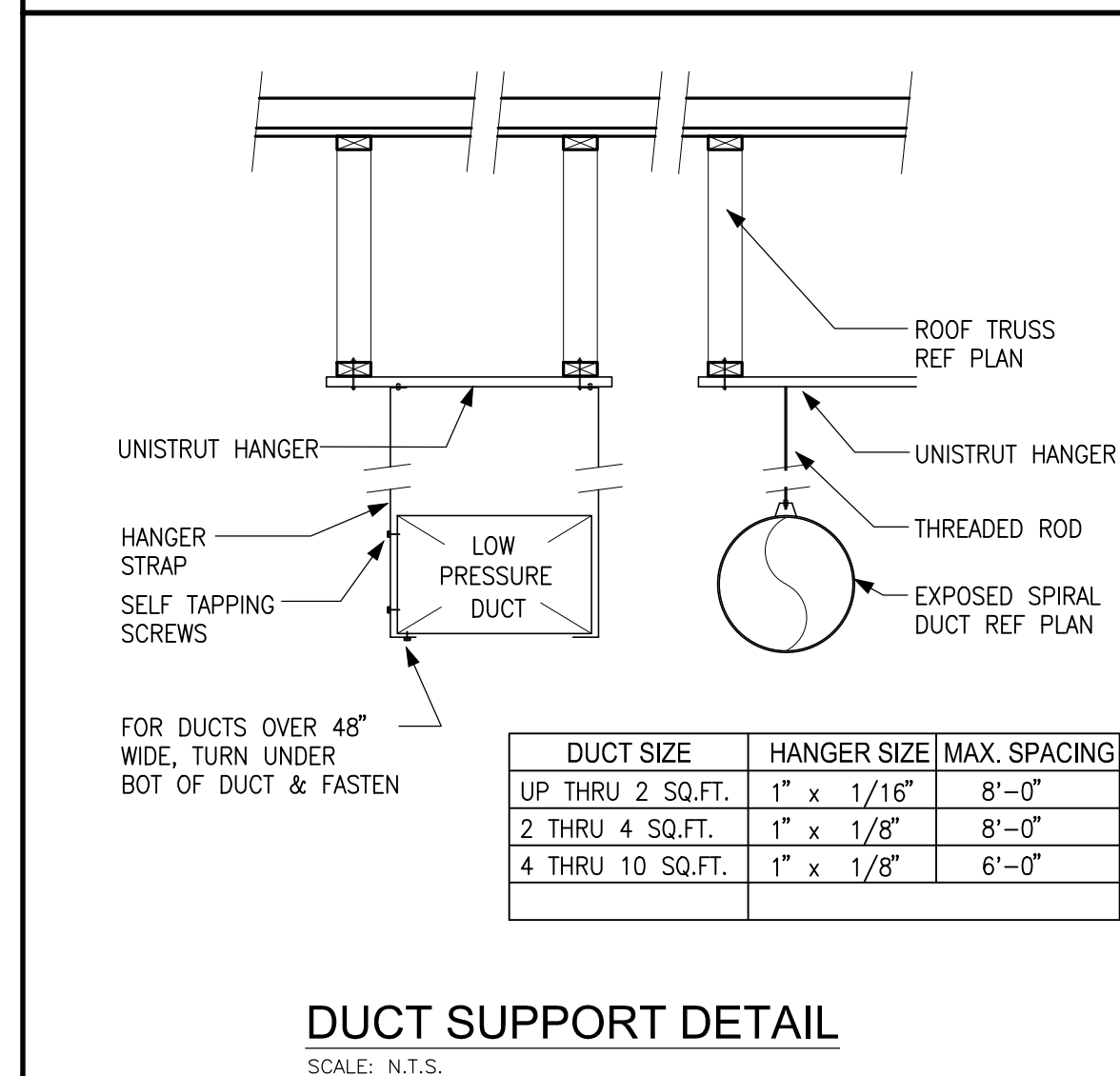
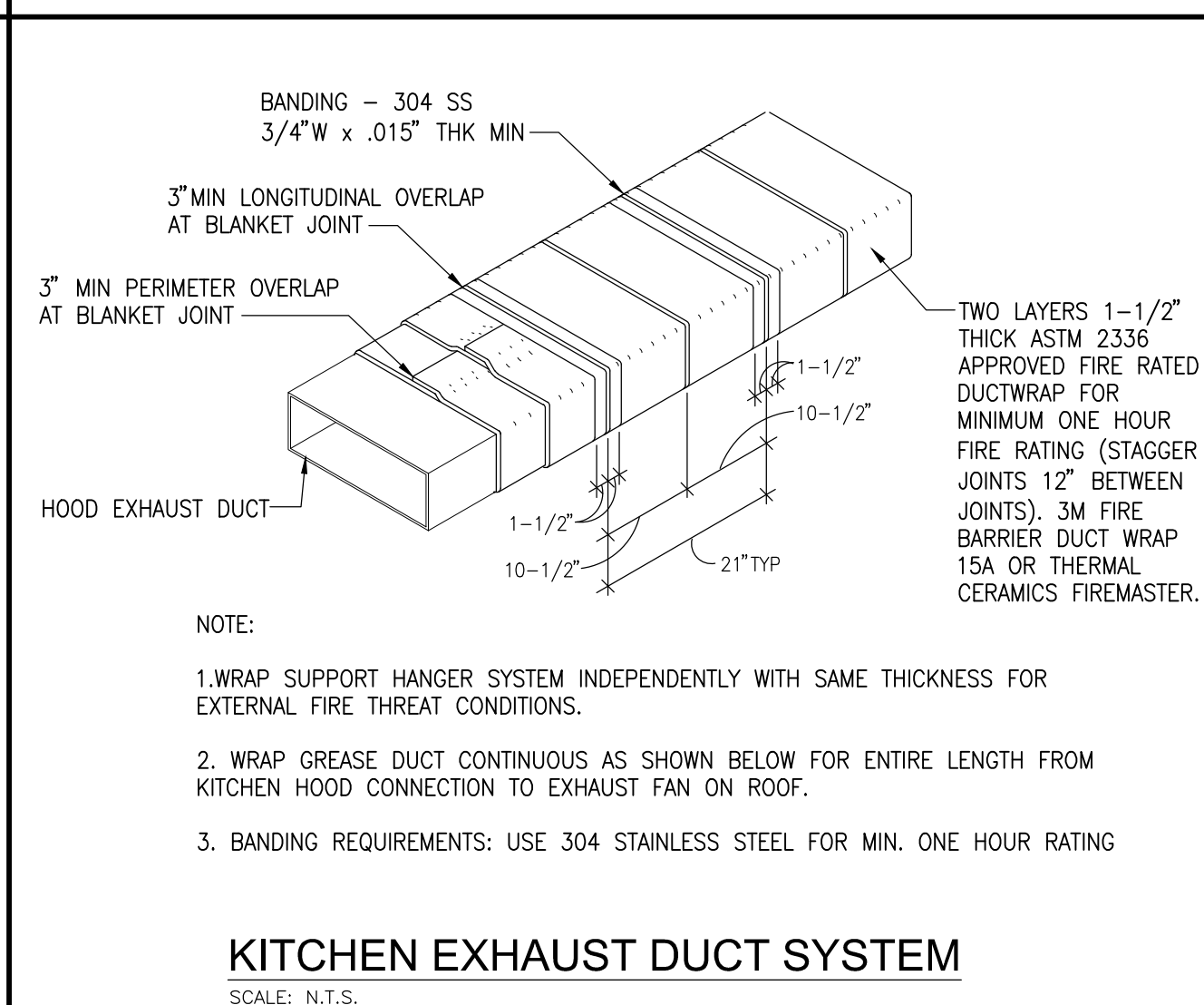
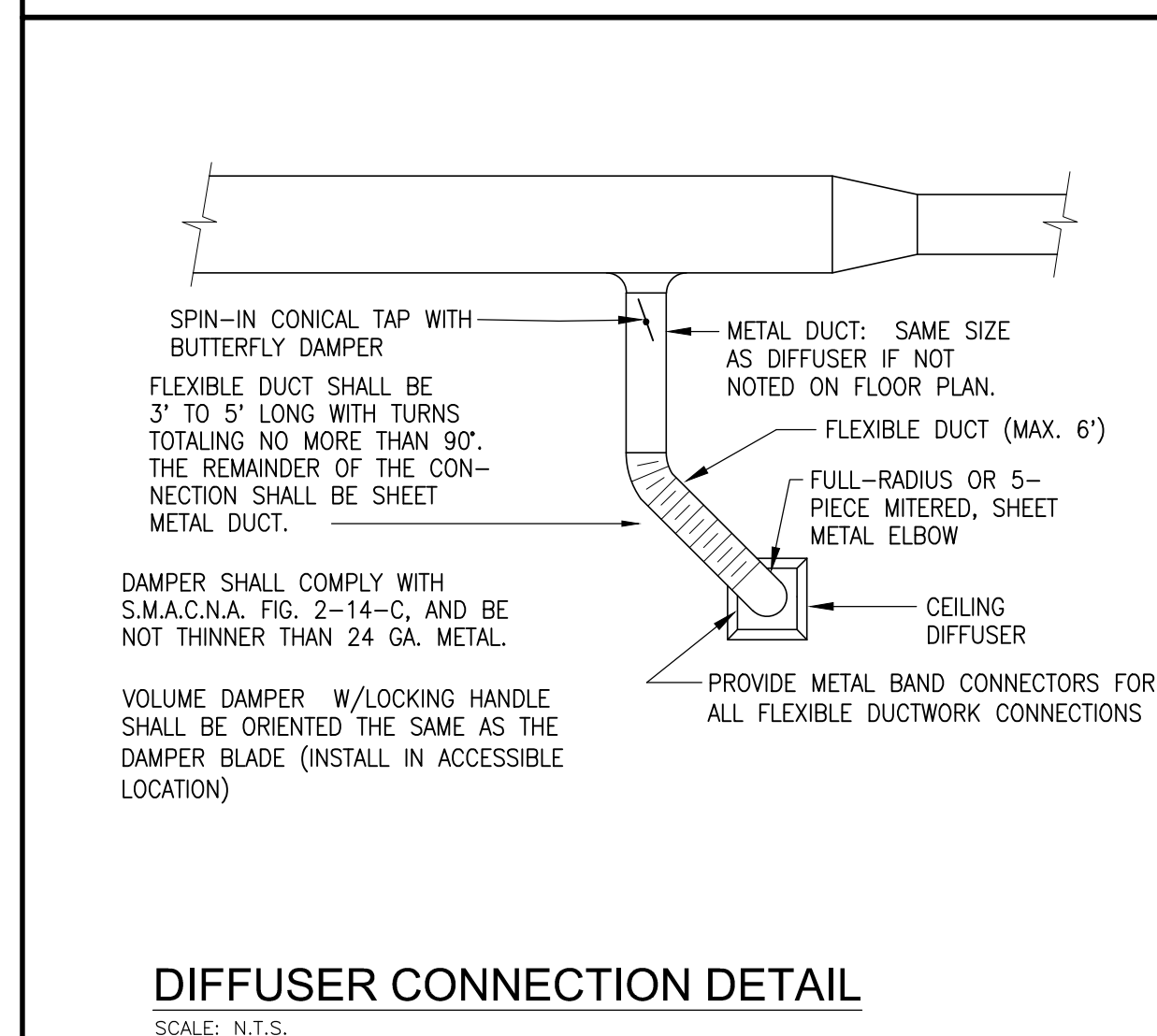
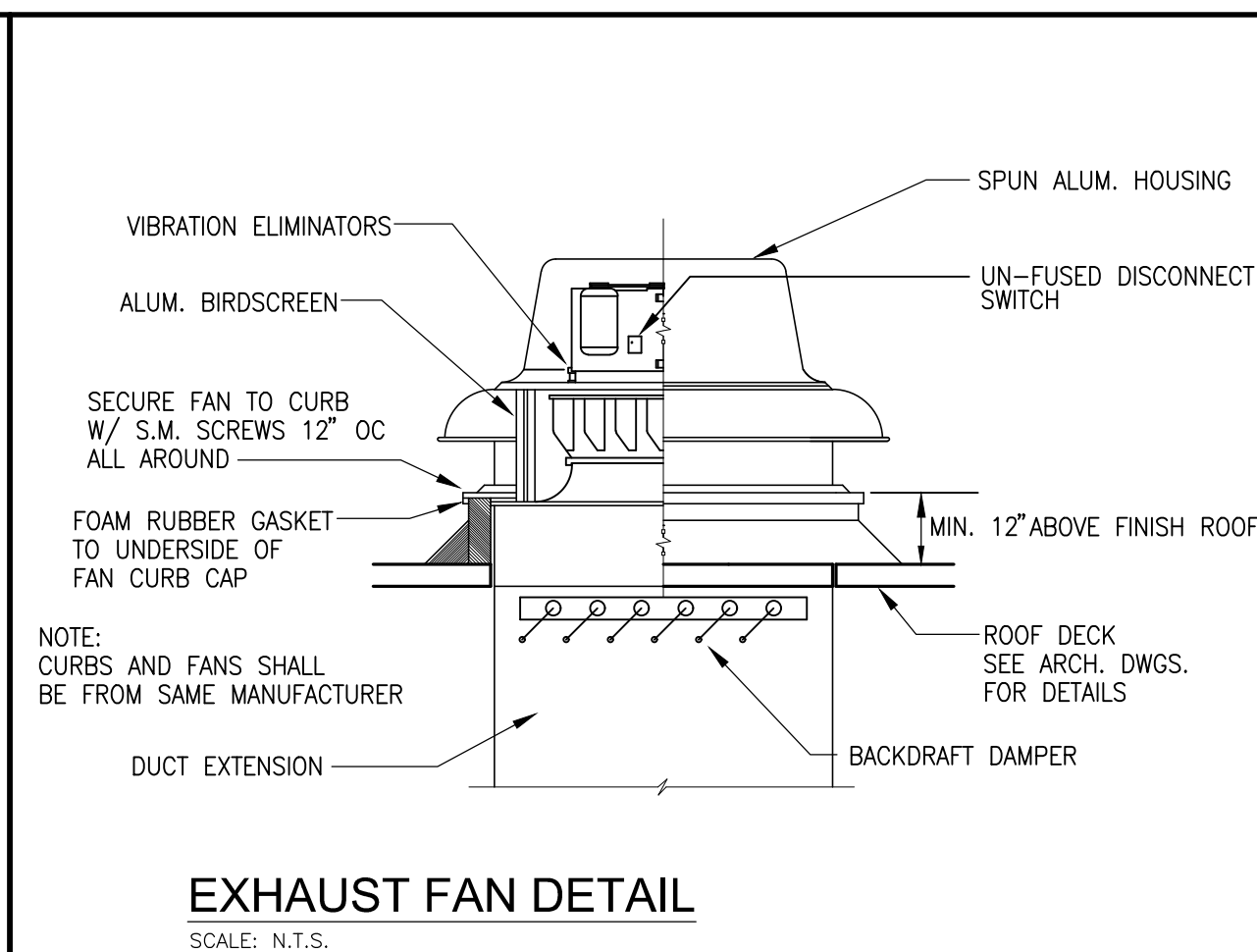
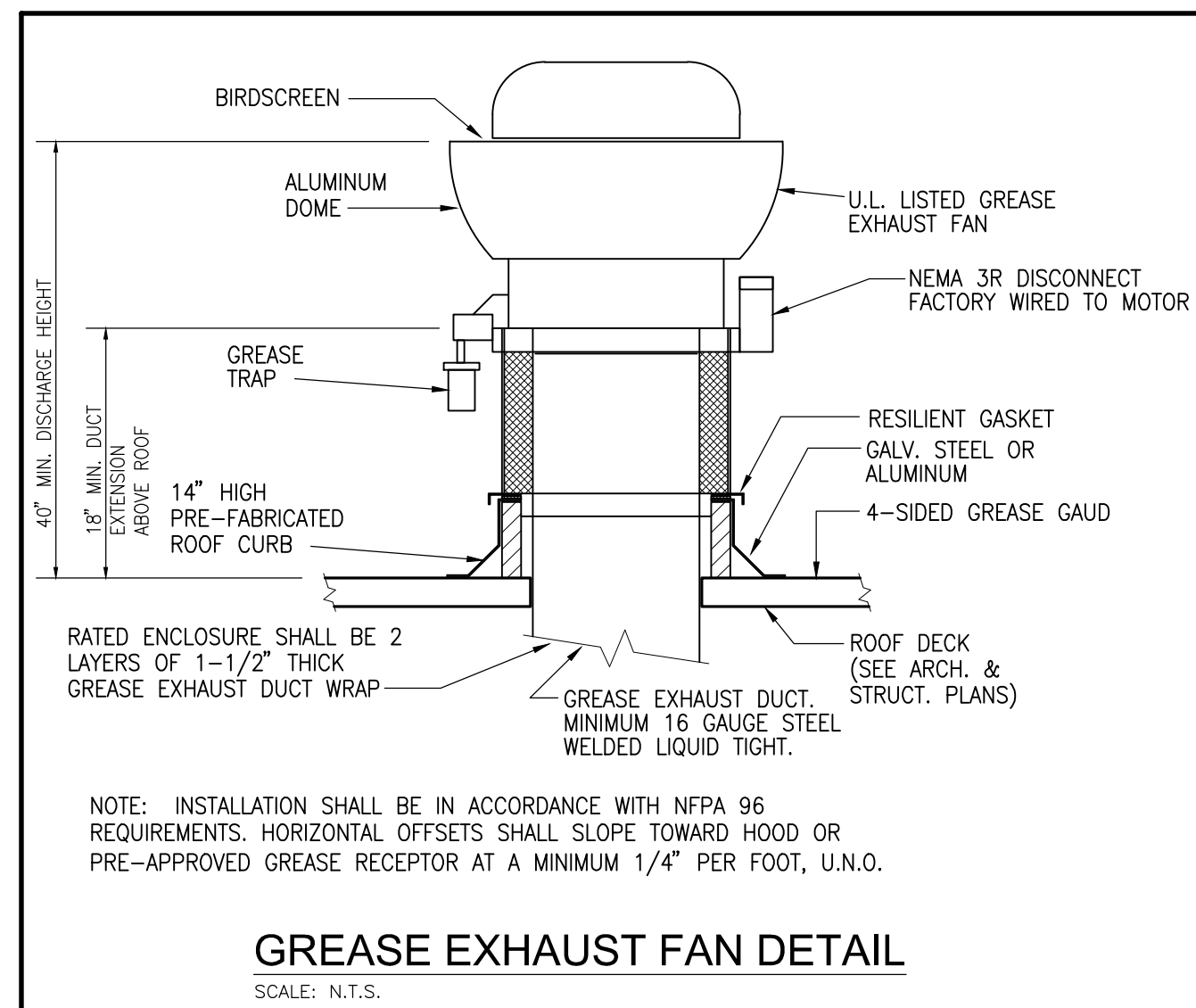
JOB NO.

18-02-003

SHEET NO.

M3

FOOD MART - BAYSHORE



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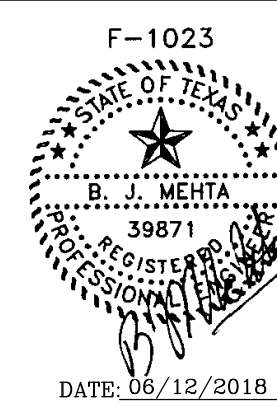
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a n d c o n s t r u c t i o n a d m i n i s t r a t i o n

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JOB NO.	18-02-003
SHEET NO.	

GOOD MART - BAYSHORE



KITCHEN ELECTRICAL NOTES	
1. ELECTRICAL PLAN SHOWS ROUGH-IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH-IN DRAWINGS FOR CONSTRUCTION.	
2. ELECTRICAL SYSTEM IS DESIGNED FOR 120/208 VOLTS, 1&3 PHASE, 60 HERTZ, 4 WIRE SYSTEM.	
3. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL JUNCTION BOXES, RECEPTACLES, COVER PLATES, PULL BOXES, CONDUIT AND WIRING EXCEPT WHERE NOTED. RECEPTACLES AND COVER PLATES SHALL BE BRUSHED STAINLESS STEEL FURNISHED BY ELECTRICAL DIVISION.	
4. ALL CONDUIT RUNS INDICATED FOR REFRIGERATION, DRINK AND LIQUOR SYSTEM LINES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION. CONDUIT SHALL HAVE 24" MINIMUM RADIUS BENDS.	
5. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL VAPOR PROOF VENTILATOR LIGHTS COMPLETE WITH LAMPS. INTERCONNECTING CONDUIT, WIRING WITH WALL SWITCH FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION.	
6. ADDITIONAL CONVENIENCE RECEPTACLES, TELEPHONE AND INTERCOM JACKS AND TEMPERATURE MONITORING SYSTEM ETC., SHALL BE LOCATED PER OWNER AND AS REQUIRED BY CODE.	
7. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH DISPOSER CONTROLS. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL INTER-CONNECTING CONDUIT AND WIRE BETWEEN SWITCH, DISPOSER AND COMPONENTS.	
8. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN MICRO-SWITCH AND SOLENOID FUEL SHUT OFF VALVE FURNISHED WITH FIRE SUPPRESSION SYSTEM SUPPLIED BY THE KITCHEN EQUIPMENT CONTRACTOR.	
9. PRE-FABRICATED COLD STORAGE ROOMS ARE FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR COMPLETE WITH SPLICE BOXES, LIGHT FIXTURES, LAMPS, LIGHT SWITCHES AND DOOR HEATERS. ELECTRICAL DIVISION TO INSTALL SAME AND SHALL FURNISH AND INSTALL INTERCONNECTING CONDUIT, WIRING SEALOFFS, SEALANT AND MAKE FINAL CONNECTIONS.	
10. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN KITCHEN EQUIPMENT CONTRACTOR FURNISHED LOW TEMP COLD STORAGE ROOM EVAPORATOR TERMINAL BLOCK, SWITCH, FAN DOOR SWITCH AND COMPRESSOR CONTROL PANEL.	
11. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL EMPTY CONDUIT WITH JUNCTION BOXES FOR INSTALLATION OF OWNER SUPPLIED I.T. EQUIPMENT INCLUDING POS/ ELECTRONIC CASH CONTROL SYSTEM. ELECTRICAL DIVISION TO VERIFY INSTALLATION IN ACCORDANCE WITH OWNER'S REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS.	
12. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL DISCONNECTS FOR ALL ELECTRICAL EQUIPMENT UNDER HOOD ACTIVATED BY FIRE SUPPRESSION SYSTEM.	

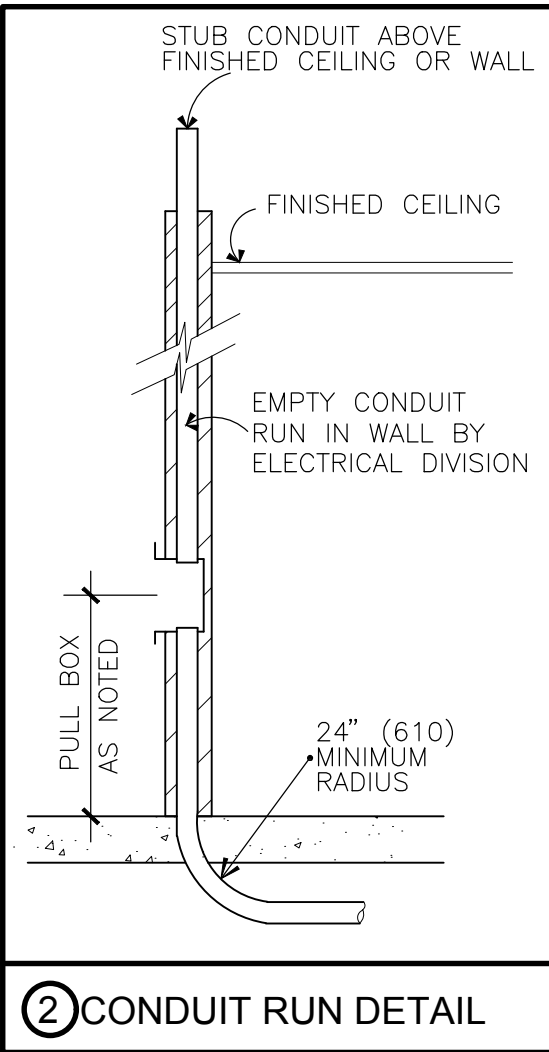
NOTE
ALL WALL MOUNT ELECTRICAL RECEPTACLE AND J-BOXES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED CONDUIT SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURRING IF REQUIRED.

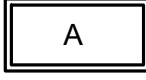
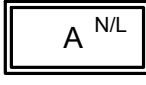

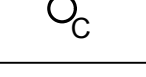
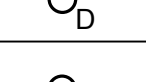


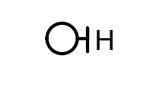
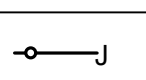
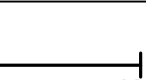
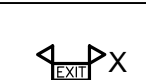




NOTE "A"
120V, 1 PHASE, SERVICE, 10.0 AMPS, STUB AS NOTED, FOR POS/PRE-CHECK SYSTEM STATIONS. (DEDICATED CIRCUIT, ISOLATED GROUND, PROVIDE (ADD PHONE LINE) EMPTY J-BOX WITH CONDUIT FOR INTERCONNECTING POS SYSTEM, PRE-CHECK AND PRINTERS.) (VERIFY ALL REQUIREMENTS WITH POS SYSTEM SUPPLIER.)

NOTE: WALK-IN ELECTRICAL
ALL CONDUIT SHALL BE RUN ON THE EXTERIOR CEILING OF ALL COLD STORAGE ROOMS AND SHALL PENETRATE THE CEILING AT A POINT WHERE THE CONDUIT CAN DROP DIRECTLY TO THE POINT OF CONNECTION. UNDER NO CIRCUMSTANCES, WILL ELECTRICAL CONDUIT BE PERMITTED ON THE INTERIOR.

\* SEE SHEETS E0 FOR GENERAL ELECTRICAL NOTES, E1 FOR LIGHTING PLAN, E3 FOR ROOF ELECTRICAL PLAN AND A1.2, A1.3 FOR EQUIPMENT PLAN AND SCHEDULE.

	<p>① JUNCTION BOX ② THERMOSTAT ③ LIQUID LINE SOLENOID ④ EYES &amp; NIPPLE FOR CEILING PENETRATION TO SPLICE BOX ⑤ HEATED VACUUM VENT C.S.R. - COLD STORAGE ROOM * EXT RIGID CONDUIT RUN ABOVE C.S.R. CEILING BY ELEC. DIVISION (TYP)</p> <p><b>NOTES:</b> 1. LIGHT FIXTURES, SWITCH BOXES, SWITCHES, &amp; SPLICE BOXES ARE FURNISHED LOOSE WITH COLD STORAGE ROOMS. ELECTRICAL DIVISION TO INSTALL ALL ITEMS FURNISHED LOOSE INCLUDING ALL INTERCONNECTING CONDUIT &amp; WIRING. 2. EVAPORATORS FOR COLD STORAGE ROOM ARE FURNISHED &amp; INSTALLED COMPLETE WITH ROOM THERMOSTAT, LIQUID LINE SOLENOID &amp; DISCONNECT SWITCH. ELECTRICAL DIVISION TO PROVIDE INTERCONNECTING CONDUIT &amp; WIRING FROM BUILDING SERVICE TO ALL COMPONENTS. 3. ELECTRICAL DIVISION TO PROVIDE ALL BUILDING SERVICES INCLUDING J-BOXES, INTERCONNECTING CONDUIT &amp; WIRING FROM BUILDING SERVICE TO COMPONENTS. 4. EYS FITTING FURNISHED WITH COLD STORAGE ROOMS. ELECTRICAL DIVISION TO INSTALL, WIRE &amp; SEAL BY ACCEPTED INDUSTRY PRACTICE. 5. STAINLESS STEEL ESCUTCHEON PLATES &amp; HOLES THROUGH INSULATED PANELS ARE FURNISHED WITH COLD STORAGE ROOM. ELECTRICAL DIVISION TO SEAL ALL PENE-TRATIONS WITH CAULKING ON THE C-S-R INTERIOR &amp; EXTERIOR AND INSTALL INTERIOR &amp; EXTERIOR ESCUTCHEON PLATES. 6. EVAPORATOR FAN MOTORS, FOR REFRIGERATORS RUN CONTINUOUSLY. DO NOT WIRE INTERNALLY WITH THERMOSTAT. EVAPORATOR FAN MOTORS FOR FREEZERS CYCLE WITH FREEZER DEFROST.</p>
<p>① TYPICAL COLD STORAGE ROOMS ELEC. DIAGRAM</p>	



LIGHT FIXTURE SCHEDULE									* ALL LED LAMPS SHALL BE 5000°K UNLESS OTHERWISE NOTED.
SYMBOL/ MARK	MARK	MANUFACTURER/ MODEL	PRODUCT	MOUNT	LAMP	QTY.	VOLTS/ WATTS MAX	LOCATION	
	A	STAR LIGHTING FP2X4LED60WSK	LAY-IN 2'X4'	RECESSED	LED	1	120 - 60	OFFICES, MAINTENANCE/STORAGE, STORE, RESTROOM, HALLWAY-1&2, TACO CORNER, DICKEY'S BBQ	
	A	STAR LIGHTING FP2X4LED60WSK	LAY-IN 2'X4' W/ NIGHT LIGHT	RECESSED	LED	1	120 - 60	MAINTENANCE, RESTROOM, HALLWAY-1&2, TACO CORNER, DICKEY'S BBQ	
	B	STAR LIGHTING	HIGH BAY SUSPENDED	SUSPENDED	LED	1	120 - 150	SEATING, C--STORE SALES AREA	
	C	STAR LIGHTING	RECESS 4" DIA	RECESSED	LED	1	120 - 18	CASHIER	
	D	STAR LIGHTING	RECESS 4" DIA	RECESSED	LED	1	120 - 18	COUNTER SERVICE, SERVICE LINE	
	E	STAR LIGHTING	RECESS 6" DIA	RECESSED	LED	1	120 - 18	RESTROOMS	
	F	STAR LIGHTING	RECESS 6" DIA FOR DAMP LOCATION	RECESSED	LED	1	120 - 18	ENTRANCE CANOPY	
	G	STAR LIGHTING STRWP100W WHITE FINISH	WALL PACK	SURFACE	LED	1	120 - 150	EXTERIOR BUILDING MOUNT	
	H	STAR LIGHTING V9636-20 SILVER GREY FINISH	WALL SCONCE EXTERIOR WITH BATTERY BACKUP FOR WET LOCATIONS	WALL	LED	2	120 - 34	EXIT/ ENTRY DOORS WITH BATTERY PACK FOR 90 MINUTES	
	J	STAR LIGHTING	LED STRIP--GRAZE	WALL/ CEILING	LED 4000K		120 -	ACCENTS AT ENTRANCE CANOPY AND EXTERIOR BUILDING PARAPET MOUNT	
	K	STAR LIGHTING	STRIP LIGHT W/ VANDAL RESISTANT GUARD FOR WET LOCATIONS	SURFACE	LED	2	120 - 13	ATTIC SPACE	
	X	STAR LIGHTING CXTEU WHITE FINISH	EMERGENCY WITH EXIT SIGN, NI CAD BATTERY BACKUP RED LETTERS	WALL/ CEILING	LED	2	120 - 10	SEATING, SALES AREA, TACO CORNER, DICKEY'S, HALLWAY-2	
	X1	STAR LIGHTING	EMERGENCY W/O EXIT SIGN, NI CAD BATTERY BACKUP	WALL/ CEILING	LED	2	120 - 10	RESTROOM, TACO CORNER, DICKEY'S BBQ	
	X2	STAR LIGHTING	EXIT SIGN W/BATTERY BACKUP	WALL/ CEILING	LED		120 - 2	C--STORE SALES AREA	
			EXHAUST FAN					SEE HVAC PLANS FOR SPECS.	

ELECTRICAL NOTES:	
1. FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, INSURANCE, SERVICES AND PERMITS NECESSARY TO CONSTRUCT AND INSTALL A COMPLETE OPERATING ELECTRICAL SYSTEM.	
2. ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE CODES AS REQUIRED BY LOCAL AUTHORITIES.	
3. ELECTRICAL SUB CONTRACTOR SHALL OBTAIN ALL PERMITS AND SHALL PAY FOR ALL ASSOCIATED EXPENSES, PRINTING AND INSPECTIONS.	
4. SUB CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND SHALL COORDINATE AND SCHEDULE HIS WORK WITH THE OWNER AND OTHER TRADES.	
5. ALL MATERIAL SHALL BE NEW AND UL LISTED. MATERIAL SHALL BEAR THE APPROVAL LABEL OF UL, WHEN SUCH IS AVAILABLE.	
6. UNLESS OTHERWISE SHOWN, ALL BRANCH CIRCUIT WIRES SHALL BE THHN/THWN COPPER. FEEDERS TO PANEL BOARDS AND INCOMING SERVICE SHALL BE THW OR THWN COPPER. MINIMUM SIZE #12 AWG.	
7. ALL ELECTRICAL CONDUITS, RACEWAYS AND CABLES SHALL HAVE A GROUND CONDUCTOR. MINIMUM SIZE SHALL BE NO. 12 AWG. GROUND CONDUCTOR SHALL BE TERMINATED AT GROUND BUS.	
8. EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING FIXTURES, WRING DEVICES OUTLET SWITCHES AND CONTACTORS BOXES FOR ELECTRICAL EQUIPMENT SHALL BE COORDINATED WITH THE OWNER AND THE EQUIPMENT VENDOR.	
9. TOGGLE SWITCHES SHALL BE MOUNTED AT 42 INCHES ABOVE FINISHED FLOOR. WALL MOUNTED RECEPTACLES SHALL BE MOUNTED AT 15 INCHES A.F.F. AND 6 INCHES ABOVE COUNTERS.	
10. WIRING DEVICES THAT OCCUR TOGETHER SHALL BE GANGED UNDER A COMMON WALL PLATE.	
11. COLOR OF WALL PLATES SHALL BE AS DIRECTED BY THE OWNER	
12. OUTDOOR RECEPTACLES SHALL HAVE "IN-USE WEATHERPROOF" COVER BY CARLON ELECTRICAL PRODUCTS.	
13. ALL BALLASTS SHALL BE OF A HIGH POWER FACTOR. FLUORESCENT LAMP BALLASTS SHALL BE ELECTRONIC, 20% THD, CBM CERTIFIED WITH "A" SOUND RATING. BALLASTS SHALL BE HOWARD INDUSTRIES OR EQUAL.	
14. EACH PANEL AND SAFETY SWITCH SHALL BE IDENTIFIED BY AN ENGRAVED LAMINATED NAMEPLATE.	
15. ALL NEW PANEL BOARDS SHALL HAVE A GROUND BUS.	
16. CONTRACTOR SHALL COORDINATE CONDUIT'S ROUTING AND METHOD OF SUPPORT WITH THE OWNER AND OTHER TRADES.	
17. CONTRACTOR SHALL VERIFY ACTUAL NAMEPLATE LOADS OF EQUIPMENT AND SHALL INSTALL THE PROPER NEC SIZE FUSE OR CIRCUIT BREAKER. HE SHALL NOTIFY THE ENGINEER IF CHANGES IN WIRE AND RATING SIZES ARE REQUIRED.	
18. FEEDERS INSTALLATION SHALL BE EMT INDOOR AND HDG RIGID STEEL CONDUIT FOR EXPOSED WORK OUTDOOR. MULTIPLE CONDUIT RUNS SHALL BE ON TRAPEZE HANGERS UTILIZING 3/8" RODS AND EPOXY PAINTED 12 GA. STRUTS. INSTALLATION IN THE OFFICE MAY BE IN TYPE AC CABLE WITH GROUND.	
19. HOME RUNS OF 20 AMP BRANCH CIRCUITS, THAT EXCEED 100 FEET IN LENGTH SHALL BE NO.10 AWG. ALL HID LIGHTING WIRES SHALL BE #10 AWG. WIRES TO LIGHTING POLE SHALL BE #8 AWG.	
20. COMPLETE TYPED PANEL'S DIRECTORIES SHALL BE PROVIDED UPON COMPLETION OF WORK.	
21. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL FURNISH THE OWNER A RED MARKED SET OF DRAWINGS INDICATING ALTERATION THAT WERE MADE, UNDERGROUND CONDUIT ROUTING, SCHEMATICS AND EQUIPMENT WIRING DIAGRAMS.	
22. OUTDOOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCELL.	
23. WIRING DEVICES SHALL BE SPECIFICATION GRADE.	

LIGHTING COMPLIANCE NOTES
- BI-LEVEL SWITCHING IS REQUIRED FOR SPACES LESS THAN 250 SQ.FT. HALF THE LUMINAIRES SHALL BE CONTROLLED BY ONE SWITCH.
- SPACES GREATER THAN 250 SQ.FT. LUMINAIRES SHALL BE CONTROLLED BY OCCUPANT SENSOR DEVICE
- OCCUPANT SENSOR SHALL BE A PRODUCT OF THE FOLLOWING: WATT-STOPPER, LEVITON, HUBBELL, P&S OR EQUAL.
- OCCUPANT SENSOR SHALL BE WALL OR CEILING MOUNTED AND COORDINATED WITH ROOM LAYOUT AND SENSOR MANUFACTURER.
- AUTOMATIC LIGHTING SHUTOFF MAY BE PROVIDED IN LIEU OF OCCUPANCY SENSORS-ONLY ONE SWITCH, PER EACH ROOM, SHALL BE REQUIRED.

LIGHTING LEGEND
EXHAUST FAN SEE HVAC PLANS FOR SPECS.
SINGLE POLE SWITCH AT 42" A.F.F. U.N.O.
THREE WAY SWITCH AT 42" A.F.F. U.N.O.
WALL MOUNTED OCCUPANCY SENSOR W/ SWITCH AT 42" A.F.F. U.N.O.
FOUR WAY SWITCH AT 42" A.F.F. U.N.O.
SINGLE POLE SWITCH AT 42" A.F.F. U.N.O., ALPHABET DENOTES FIXTURE CONTROLLED.

POWER NOTES
1. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF RATED WALLS AND PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF ATLEAST 24".
2. RECEPTACLES AND DEVICES PROVIDED AND INSTALLED IN MILLWORK BY MANUFACTURER. GO TO CIRCUIT AS SHOWN. COORDINATE EXACT LOCATIONS WITH SUPPLIED MILLWORK.
3. THERMOSTATS FOR HVAC UNITS TO BE PROVIDED BY HVAC CONTRACTOR, REFER HVAC DRAWINGS FOR LOCATIONS.
4. VERIFY LOCATION OF ELECTRICAL CONNECTION TO HVAC UNITS AND MOUNT EACH DISCONNECT SWITCH TO UNIT.
5. ALL DISCONNECT SWITCHES SHALL BE NEMA 3R.
6. CONNECT DISCONNECT SWITCHES TO EACH RTU UNIT TERMINAL BOX WITH LIQUID-TIGHT FLEXIBLE CONDUIT. HVAC DISCONNECTS ARE TO BE SUPPLIED BY CONTRACTOR.

NOTE:
- ALSO SEE SITE LIGHTING PLAN FOR ADDITIONAL SITE ELECTRICAL REQUIREMENTS.
- SEE SHEET E2 FOR POWER LEGEND.

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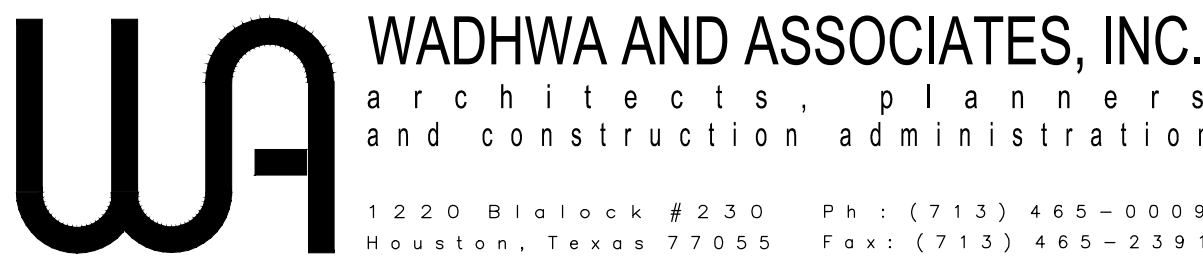
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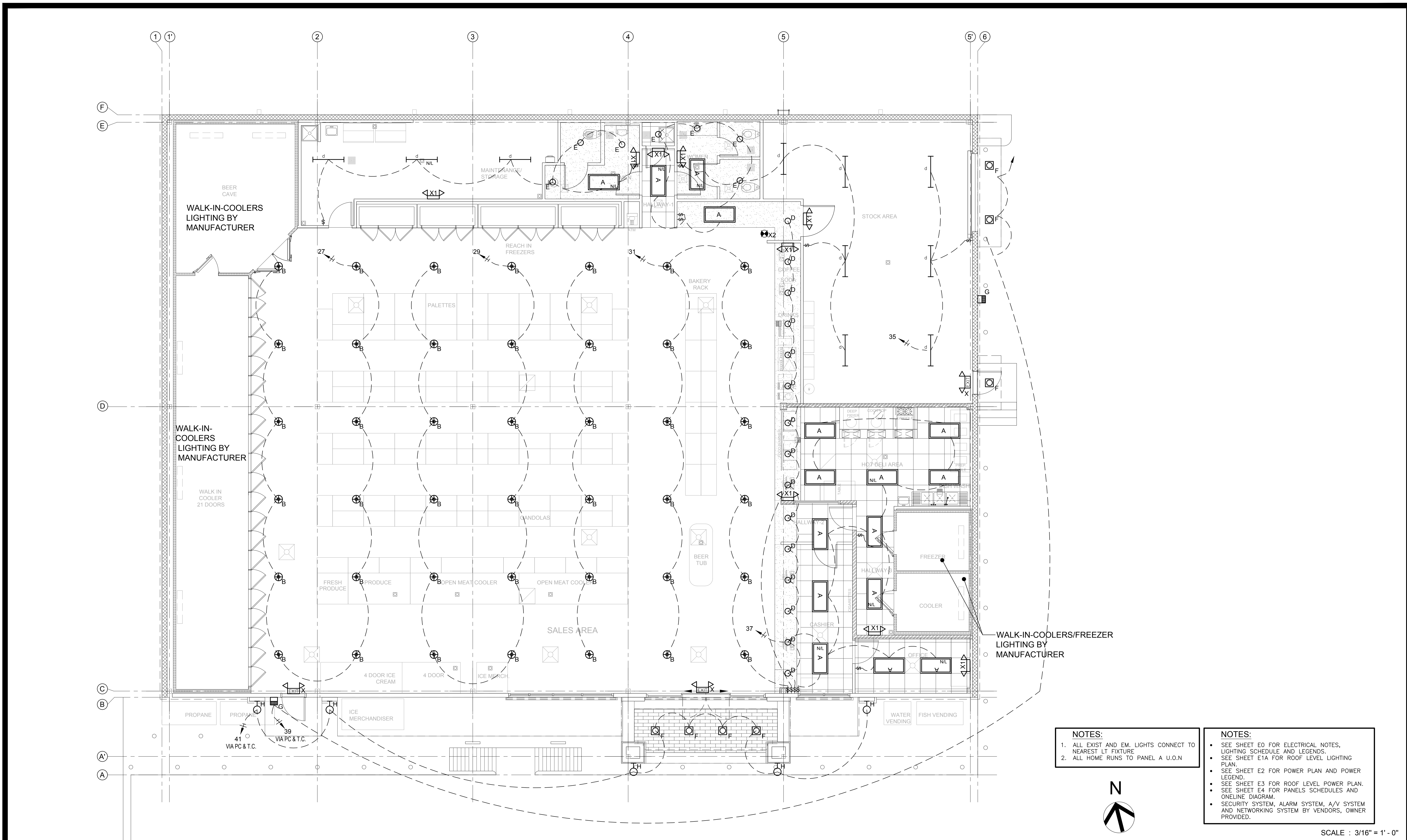
ELECTRICAL NOTES AND SCHEDULE



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SHEET NO. E0

FOOD MART - BAYSHORE

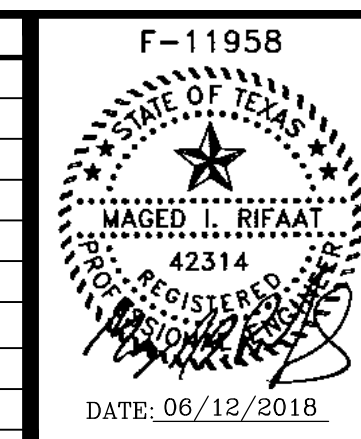


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DRAWN:  
CHECKED:  
DATE : JAN 2018

NEW LAWRENCE GROCERY  
902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

ISSUE  
06-12-18 I.F.P.



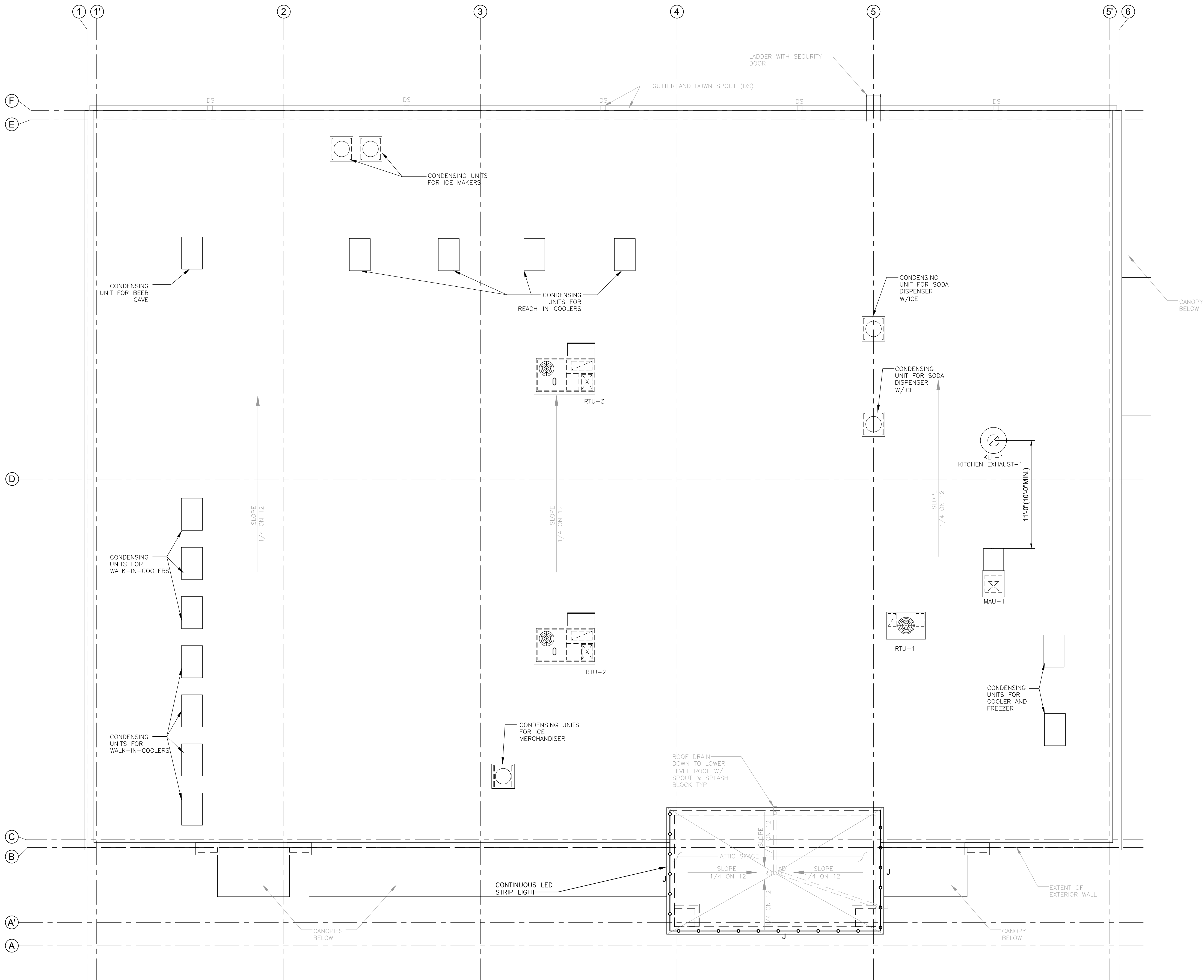
LIGHTING PLAN  
WADHWA AND ASSOCIATES, INC.  
architects, planners  
and construction administration  
1220 Biolock #230 Ph: (713) 465-0009  
Houston, Texas 77055 Fax: (713) 465-2391

R E V I S I O N S	
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JOB NO.  
18-02-003  
SHEET NO.  
E1

FOOD MART - BAYSHORE





- NOTES:
- SEE SHEET E0 FOR ELECTRICAL NOTES, LIGHTING SCHEDULE AND LEGENDS.
  - SEE SHEET E1 FOR GROUND LEVEL LIGHTING PLAN.
  - SEE SHEET E2 FOR POWER PLAN AND POWER LEGEND.
  - SEE SHEET E3 FOR ROOF LEVEL POWER PLAN.
  - SEE SHEET E4 FOR PANELS SCHEDULES AND ONLINE DIAGRAM.
  - SECURITY SYSTEM, ALARM SYSTEM, A/V SYSTEM AND NETWORKING SYSTEM BY VENDORS, OWNER PROVIDED.

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DATE : JAN 2018

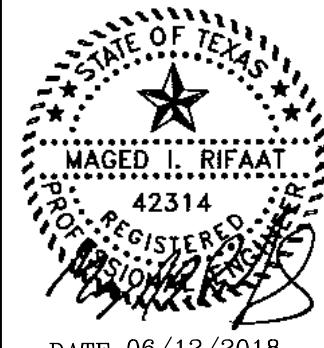
## NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

### ISSUE

06-12-18 I.F.P.

F-11958



### ROOF LEVEL LIGHTING PLAN

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architects, planners  
and construction administration  
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Houston, Texas 77055 Fax: (713) 465-2391

### REVISIONS

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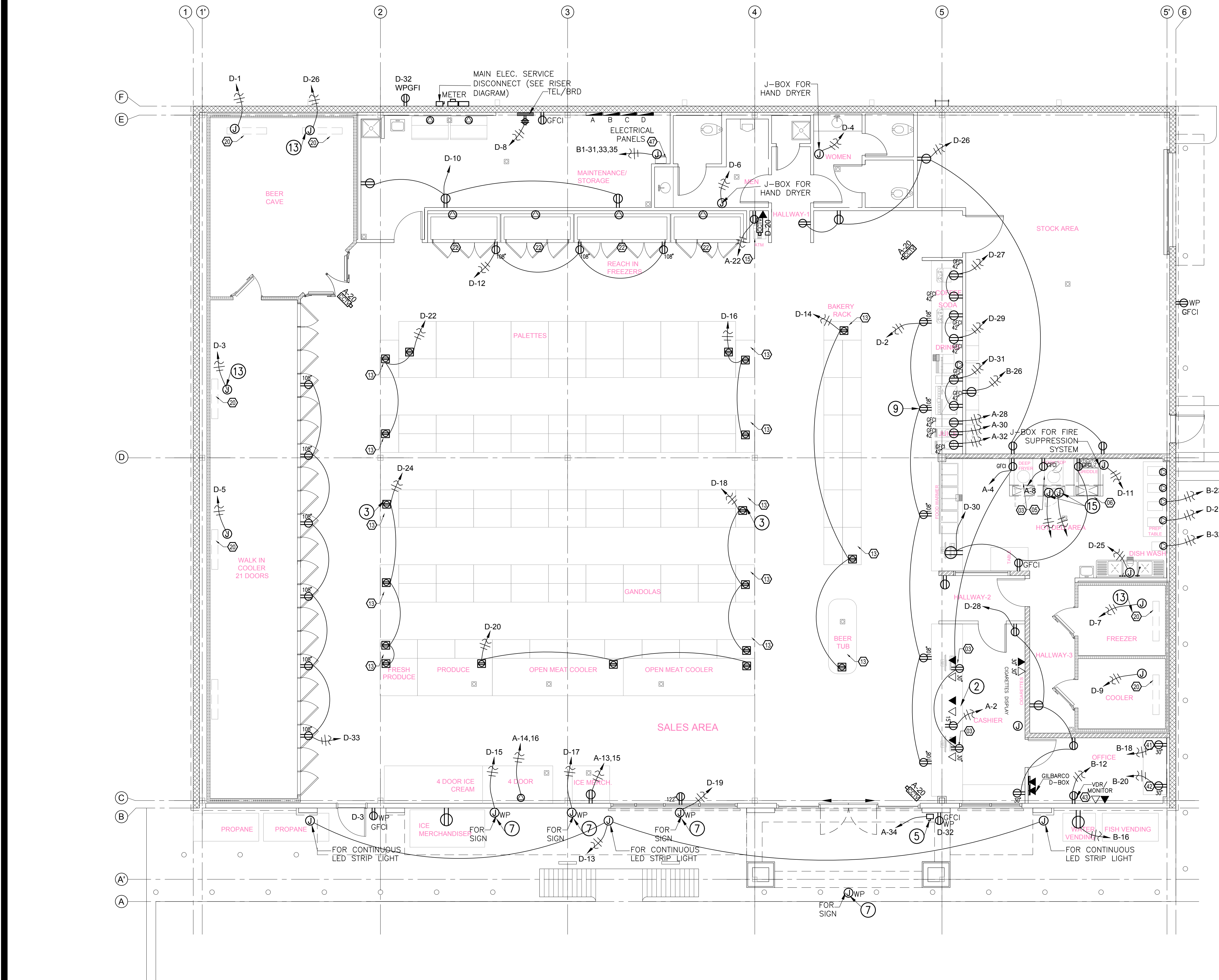
JOB NO.

18-02-003

SHEET NO.

E1A

FOOD MART - BAYSHORE



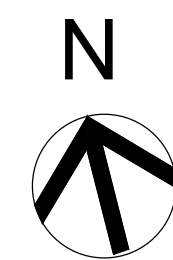
ELECTRICAL LEGEND			
	115V RECEPTACLE		G.F.C.I. GROUND FAULT CURRENT INTERRUPTER
	220V RECEPTACLE 1 PH., RATING AS REQUIRED		FLUSH FLOOR RECEPTACLE
	JUNCTION BOX		CLOSED CIRCUIT TELEVISION CAMERA. INCLUDE CONNECTION TO NEAREST ADEQUATE UNSWITCHED 120VOLT SOURCE, CEILING MOUNTED.
	TELEPHONE OUTLET		DICONNECT SWITCH
	COMPUTER OUTLET		ELECTRICAL PANEL
	TELEVISION OUTLET (ELEC. RECEPTACLE AND SATELITE TV CABLE)		
	115V RECEPTACLE WEATHER PROOF W/ G.F.C.I.		

- ### KEYED NOTES

  - CONNECT EXHAUST FAN TO REST ROOM LIGHTING CIRCUIT AND CONTROL.
  - RECEPTACLES AND DEVICES PROVIDED AND INSTALLED IN MILLWORK BY MANUFACTURER. GC TO CIRCUIT AS SHOWN. COORDINATE EXACT LOCATIONS WITH SUPPLIED MILLWORK.
  - PROVIDE FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE WITH BRASS COVER PLATE AND TRIM RING. REFER TO SHEET A1 GANDOLA LAYOUT FOR EXACT LOCATIONS.
  - PROVIDE POWER FOR UNDER COUNTER MICROWAVE.
  - EMERGENCY SHUT-OFF PUSH BUTTON SWITCH. PROVIDE COMPLETE WIRING AND CONNECTIONS AS REQUIRED. VERIFY THE EXACT MOUNTING LOCATION WITH LOCAL CODE AUTHORITIES.
  - PROVIDE JUNCTION BOXES, CIRCUITING AND TIE-INS FOR COOLER/FREEZER DOOR HEATING AND TEMPERATURE CONTROL/ALARMS.
  - COORDINATE LOCATIONS FOR EXTERIOR SIGN LIGHTING JUNCTION BOXES WITH SIGN MANUFACTURER/INSTALLER.
  - PROVIDE (1) 4" CONDUIT WITH RING AND STRING FOR TELE/DATA CABLE. FROM BUILDING TELEPHONE CABINET TO TELEPHONE BOARD LOCATION AS SHOWN. COORDINATE ROUTING OF CONDUIT, TERMINATION POINTS, AND OTHER REQUIREMENTS WITH TENANT'S IT CONSULTANT/OWNER PRIOR TO INSTALLATION.
  - DUPLEX RECEPTACLE MOUNTED AT 108" ON FURR-DOWN FOR INTERIOR SIGNAGE. COORDINATE LOCATIONS WITH SIGN INSTALLER.
  - JUNCTION BOX ABOVE CEILING FOR MUSIC SYSTEM.
  - MUSIC SYSTEM AMPLIFIER BY OWNER.
  - JUNCTION BOX ABOVE FOR WATER HEATER REF. MANUF'R SPECS.
  - JUNCTION BOX FOR EVAPORATOR COIL CONNECTION. CONTRACTOR TO COORDINATE WITH WALK-IN COOLER/FREEZER VENDOR FOR ALL REQUIREMENTS AND TO MAKE FINAL TIE-INS TO ROOF CONDENSING UNITS AS REQUIRED.
  - BUZZER (8V) MOUNTED FLUSH IN CEILING, EDWARDS #661, AND 120/8V, 20VA TRANSFORMER MOUNTED IN NEMA-1 BOX ABOVE CEILING, EDWARDS #598.
  - PROVIDE 120V DEDICATED CIRCUIT FOR HOOD CONTROL PANEL COORDINATE ALL REQUIREMENTS WITH CAPTIVE AIRE HOOD DRAWINGS AND 120V DEDICATED CIRCUIT FOR HOOD LIGHTING; THE FIXTURES ARE FURNISHED AND PRE-WIRED WITH HOOD. VERIFY LAMP CHARACTERISTICS WITH HOOD SUPPLIER.
  - TELEPHONE MOUNTED BOARD TO BE MOUNTED ABOVE OFFICE DESK SHOWN IN FRONT FOR CLARIFICATION ONLY. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
  - PROVIDE TELEPHONE MOUNTING BOARD "T.M.B." WITH #6 CU. GND. TO COMPLY WITH NEC 800-100. FROM EXISTING BUILDING TELEPHONE TERMINAL CABINET TO LOCATION AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
- ### NOTES:

  - SEE SHEET E0 FOR ELECTRICAL NOTES, LIGHTING SCHEDULE AND LEGENDS.
  - SEE SHEET E1 FOR LIGHTING PLAN.
  - SEE SHEET E3 FOR ROOF LEVEL POWER PLAN.
  - SEE SHEET E4 FOR PANELS SCHEDULES AND ONELINE DIAGRAM.
  - SECURITY SYSTEM, ALARM SYSTEM, A/V SYSTEM AND NETWORKING SYSTEM BY VENDORS, OWNER PROVIDED.
  - SEE SHEET A1.2 AND A1.3 FOR EQUIPMENT PLAN AND SCHEDULE.
- ### NOTES

  - ALL RECEPTACLES 15 AND 20 AMPS. IN KITCHEN, AND RESTROOMS TO BE GFI.
  - PROVIDE SHUNT-TRIP CIRCUIT BREAKERS AS REQUIRED FOR KITCHEN EXHAUST AND SUPPLY FANS.
  - COORDINATE WITH HVAC, PLUMBING AND EQUIPMENT SUPPLIER BEFORE FINAL CONNECTIONS.



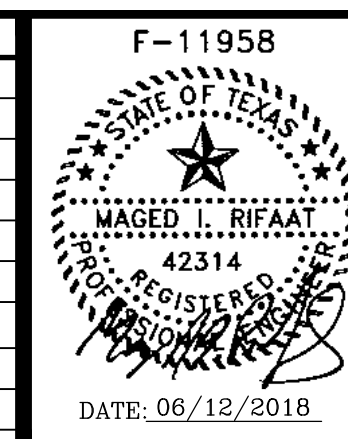
SCALE : 3/16" = 1' - 0"

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**NEW LAWRENCE GROCERY**  
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06-12-18 I.F.P.



**POWER PLAN**

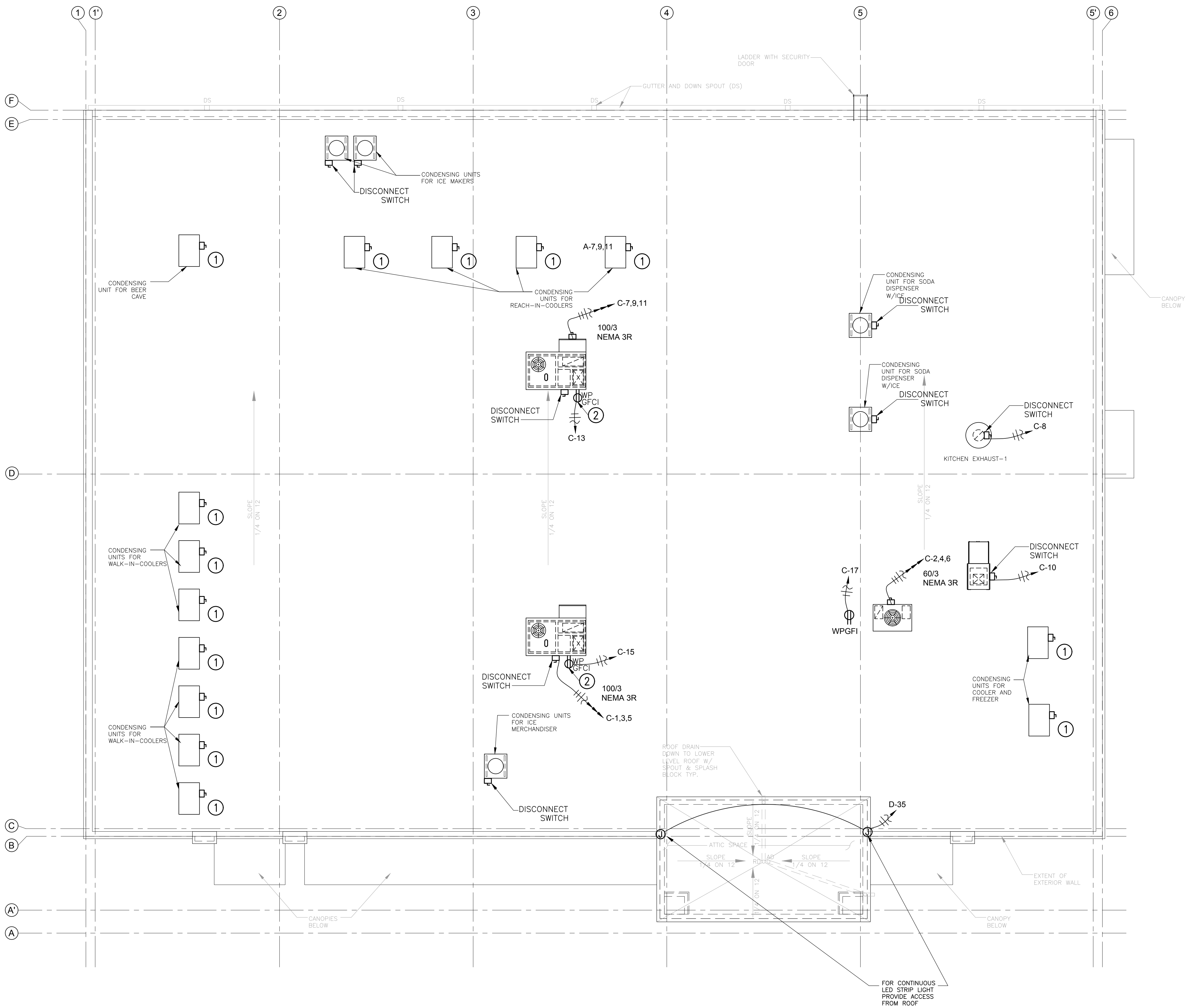
**WADHWA AND ASSOCIATES, INC.**  
architects, planners  
and construction administration  
1220 BiLock #230 Ph: (713) 465-0009  
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R E V I S I O N S	

JOB NO.  
18-02-003  
SHEET NO.  
**E2**

FOOD MART - BAYSHORE

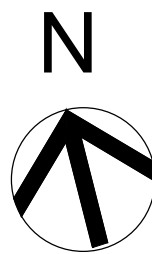




- KEYED NOTES THIS SHEET**
- 1 PROVIDE DISCONNECT SWITCHES FOR ROOF TOP A/C UNITS, CONDENSING UNITS AND EXHAUSTS BY ELEC. CONTRACTOR, COORDINATE WITH HVAC PLANS FOR REQUIREMENTS AND LOCATIONS. COORDINATE WITH PANELS A,B,C,D&E IN SHEET E5.
  - 2 RECEPTACLE MAX. 25'-0" FROM ROOF TOP A/C UNITS COORDINATE WITH HVAC CONTRACTOR AND VERIFY LOCATIONS.

- NOTES:**
- SEE SHEET E0 FOR ELECTRICAL NOTES, LIGHTING SCHEDULE AND LEGENDS.
  - SEE SHEET E1 FOR LIGHTING PLAN.
  - SEE SHEET E2 FOR POWER PLAN AND POWER LEGEND.
  - SEE SHEET E4 FOR PANELS SCHEDULES AND ONELINE DIAGRAM.
  - SECURITY SYSTEM, ALARM SYSTEM, A/V SYSTEM AND NETWORKING SYSTEM BY VENDORS, OWNER PROVIDED.

- NOTES**
1. COORDINATE WITH HVAC, PLUMBING AND EQUIPMENT SUPPLIER/ CONTRACTOR BEFORE FINAL CONNECTIONS.



SCALE : 3/16" = 1' - 0"

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# NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

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## ROOF LEVEL POWER PLAN

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architects, planners  
and construction administration  
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REVISIONS

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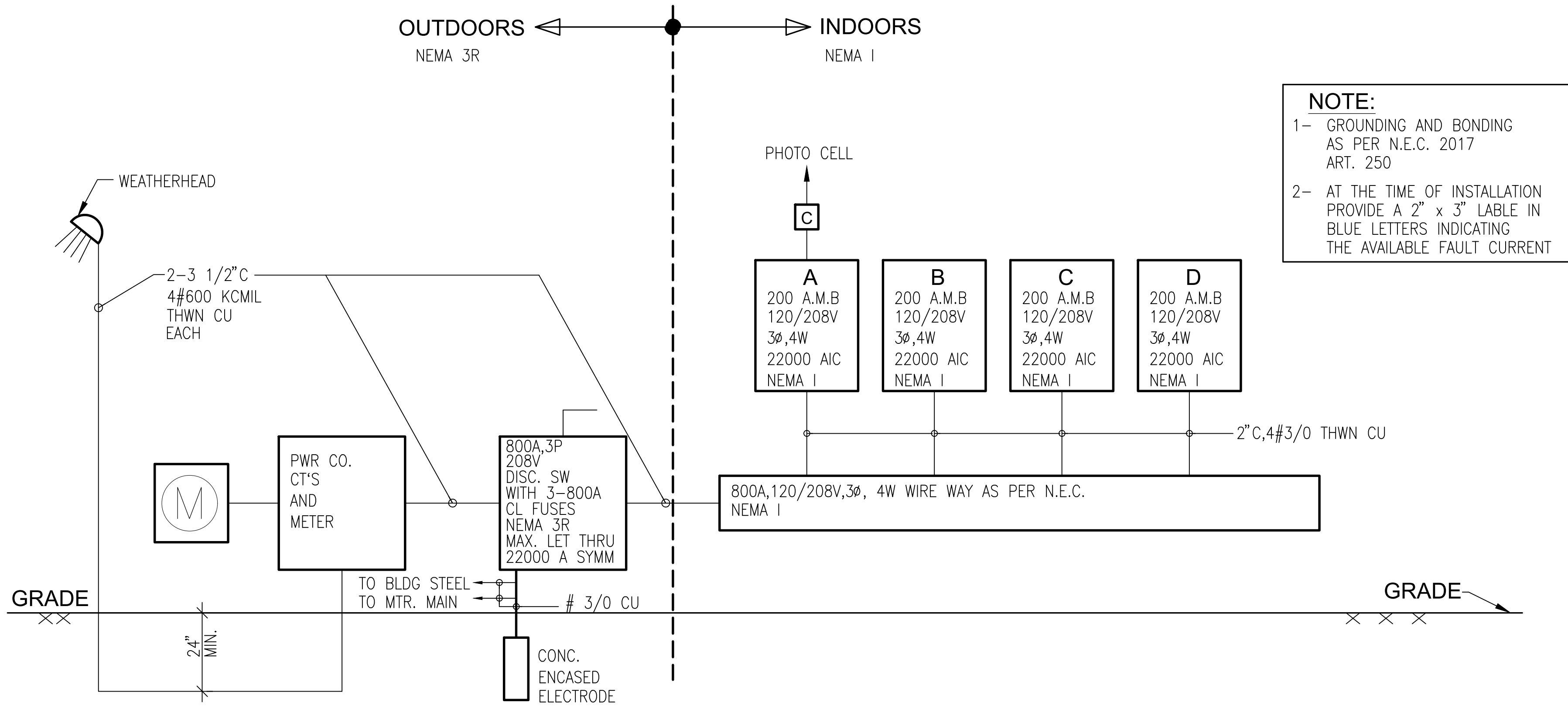
JOB NO.

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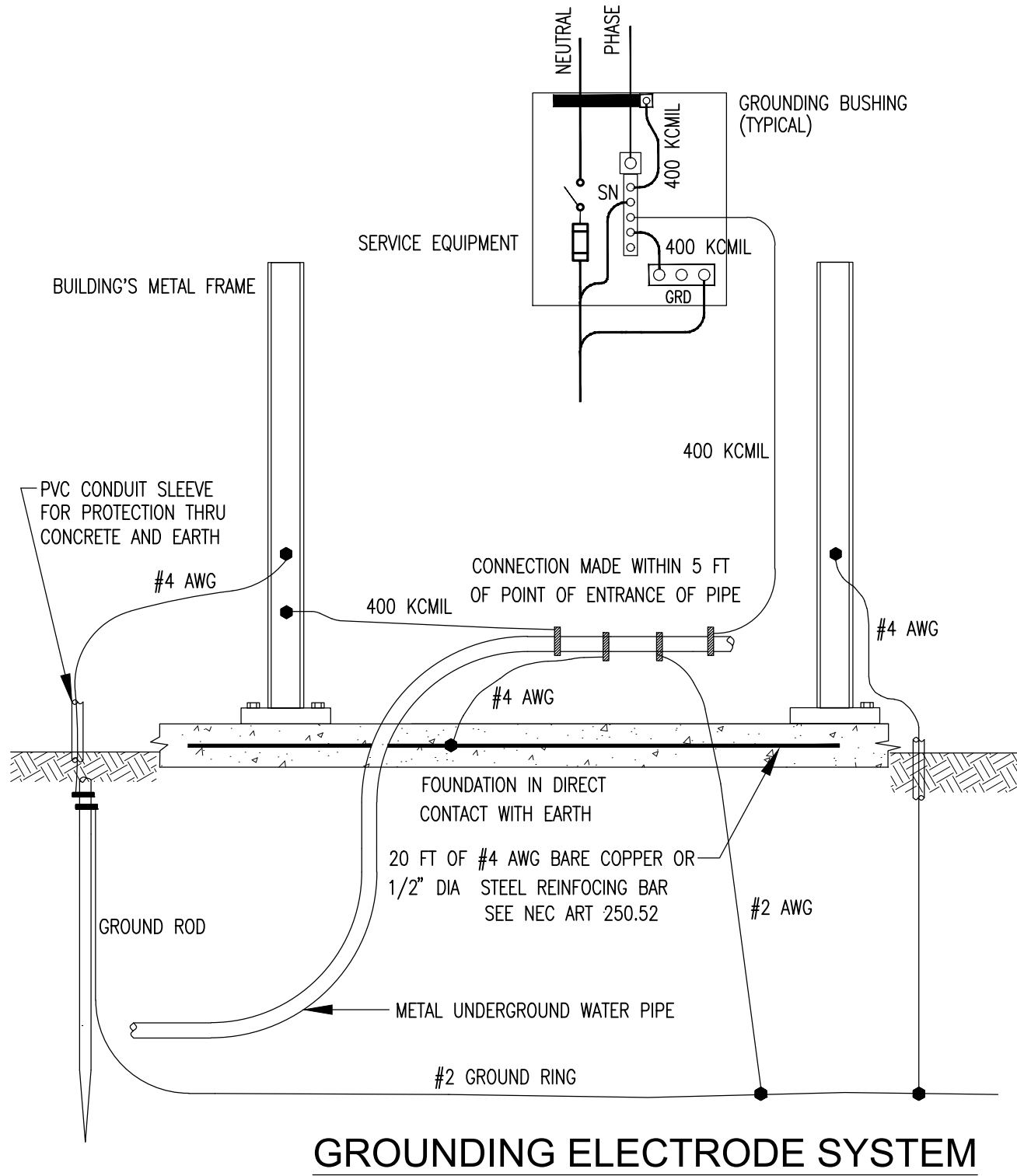
E3

FOOD MART - BAYSHORE



**NOTE:**  
1- GROUNDING AND BONDING AS PER N.E.C. 2017 ART. 250  
2- AT THE TIME OF INSTALLATION PROVIDE A 2" x 3" LABEL IN BLUE LETTERS INDICATING THE AVAILABLE FAULT CURRENT

**RISER DIAGRAM**  
N.T.S.



**ELECTRICAL LOAD ANALYSIS (LAWRENCE GROCERY)**

1.- LIGHTING LOAD	
a) AS PER N.E.C. 2017 ART 220.12	
7875 SQ. FT. x 3 x 1.25	= 29531 VA
b) ACTUAL = 8135 X 1.25 = 10169 VA	
WE USED THE GREATER	
2.- HVAC AT 100%	= 54400 VA
3.- WATER HEATER AT 125%	= 12500 VA
4.- STORE EQUIP 83204 VA AT 80%	= 66565 VA
5.- OUTDOOR LTS & SIGN 8720 x 1.25	= 10900 VA
6.- RECEPTACLES 37 x 180	= 6660 VA
7.- MISC	= 15000 VA
8.- 25% OF LARGEST MOTOR	= 2500 VA
TOTAL	= 198056 VA

AT 208V, 3Ø — 550 AMPS  
SERVICE PROVIDED CAPACITY IS 800 AMPS.

SCALE : NO SCALE

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06-12-18 I.F.P.



**LOAD ANALYSIS AND ONE LINE DIAGRAM**

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and construction administration  
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Houston, Texas 77055 Fax: (713) 465-2391

REVISIONS

01-24-18	ISSUED FOR CUSTOMER FINAL REVIEW

JOB NO.

18-02-003

SHEET NO.

**E4**

FOOD MART - BAYSHORE



[illegible]

BUS AMPS 200

MAIN BRKR AMPS: \_\_\_\_\_

VOLTS 120/208

PHASE 3

WIRE SIZE #3/0 CU

AIC 22,000

WIRE 4 -

PANEL B

NEMA: I

NOTES

1. ALL BRKS TO BE IP/20A U.N.O

2. BALANCE ALL LOADS

3. LABEL ALL CIRCUITS

CRT. DESCRIPTION	WATT LOAD	WIRE	BRKR			BRKR	WIRE	WATT LOAD	CRT. DESCRIPTION
ITEM # 21	18000	# 6	60/3	1	2	20/1	# 12	660	ITEM # 30
				3	4			1560	# 31
				5	6			1800	# 32
				7	8			1700	# 33
ITEM # 22	3000	# 12	20/2	9	10			1800	# 34
# 22				11	12			1800	# 35
				13	14			1800	# 39
# 22				15	16			1500	# 40
				17	18			500	# 41
# 22				19	20			1200	# 42
				21	22			500	# 43
# 27	5000	# 10	30/1	23	24			1500	# 44
				25	26			1000	# 50
# 45	3500	# 10	30/2	27	28			1800	# 51
				29	30			1500	# 53
# 47	10000	# 8	40/3	31	32				
				33	34	20/2	# 12	2400	# 54
				35	36				
SPACE				37	38				SPACE
				39	40				
				41	42				

CONN. LOAD = 66620 AT 80% = 54896 VA

AT 208V/3Ø → 152 AMPS

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**PANEL C**

CRT. DESCRIPTION	WATT LOAD	WIRE	BRKR	BRKR	WIRE	WATT LOAD	CRT. DESCRIPTION
RTU-2	2000	# 4	70/3	1 3 5 7	2 4 6 8	45/3	RTU-1
RTU-3	2000	# 4	70/3	9 11 13 15	10 12 14 16	# 12	KEF
WPGFI ON ROOF	180	# 12	20/1	17	18	1225	KMUAI
" " "	180	# 12	20/1	19	20	1225	KMUA2
" " "	180	# 12	20/1	21	22	500	EF-1
SPACE				23	24	500	EF-2
				25	26		SPACE
				27	28		
				29	30		
				31	32		
				33	34		
				35	36		
				37	38		
				39	40		
				41	42		

CONN. LOAD = 57215 VA  
 AT 208V, 3Ø → 159 AMPS

PANEL CAPACITY IS 200 AMPS

BUS AMPS

200

MAIN BRKR AMPS:

VOLTS

120/208

PHASE

3

WIRE SIZE

4# 3/0 CU

AIC

22,000

WIRE

4

-

PANEL D

NEMA: 1

NOTES

1. ALLBKS TO BE #20A U.N.O

2. BALANCE ALL LOADS

3. LABLE ALL CIRCUITS

CRT. DESCRIPTION	WATT LOAD	WIRE	BRKR		BRKR	WIRE	WATT LOAD	CRT. DESCRIPTION
ITEM # 20	500			1	2			5 SIGN
" "	500	# 12	20/1	3	4	20/1	# 12	1800 HAND DRYER
" "	500			5	6			" "
" "	500			7	8			360 QUAD FOR TEC.
" "	500			9	10			540 3 REC.
FIRE SUPP	1500			11	12			540 3 REC.
LED LTS	500			13	14			540 3 FL. REC.
SIGN	1200			15	16			
" "	1200			17	18			
" "	1200			19	20			
				21	22			
ITEM # 9	2400		20/2	23	24		720	4 " "
DISH WASH	1440		20/1	25	26		900	5 REC.
2 GF1	360			27	28		900	5 " "
2 GF1	360			29	30		720	4 " "
2 GF1	360			31	32	▽	720	4 WPFGI
6 REC.	1080	▽	▽	33	34			SPACE
LED	1000	▽	▽	35	36			
SPACE				37	38			
				39	40			
▽				41	42			▽

CONN. LOAD = 26520 VA

AT 208V,3ø → 74 AMPS

—IN—

PANEL CAPACITY IS 200 AMPS

SCALE : NO SCALE

ALL DRAWINGS, SPECIFICATIONS AND ALL DESIGNS PRESENTED ON THIS SHEET ARE TO REMAIN THE PROPERTY OF WADHWA AND ASSOCIATES, INC. ANY COPIES DISCLOSED TO OTHERS OR COPIED IN CONNECTION WITH ANY OTHER PROJECT OTHER THAN THAT SPECIFIC PROJECT FOR WHICH THE WRITTEN CONSENT OF WADHWA AND ASSOCIATES, INC. HAS BEEN OBTAINED, OR THE DRAWINGS NOT SCALE. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL THE DIMENSIONS OF THE PROJECT. THIS OFFICE MUST BE NOTIFIED IMMEDIATELY OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN IN THESE DRAWINGS.

DRAWN:

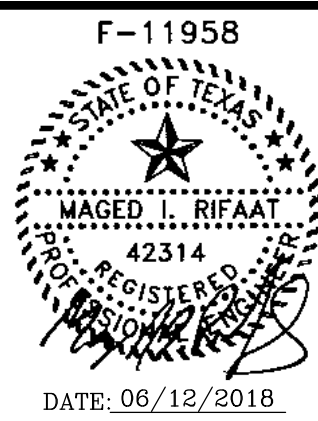
CHECKED

DATE : JAN 2018

# NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

ISSUE
06-12-18 I.F.P.



## ELECTRICAL PANELS SCHEDULE



WADHWA AND ASSOCIATES, INC.  
a r c h i t e c t s , p l a n n e r s  
a n d c o n s t r u c t i o n a d m i n i s t r a t i o n

1 2 2 0 B l o c k # 2 3 0      P h : ( 7 1 3 ) 4 6 5 - 0 0 0 9  
Houston, Texas 77055      F a x : ( 7 1 3 ) 4 6 5 - 2 3 9 1

R	E	V	I	S	I	O	N	S
1	01-24-18	ISSUED	FOR	CUSTOMER	FINAL	REVIEW		
2								
3								
4								

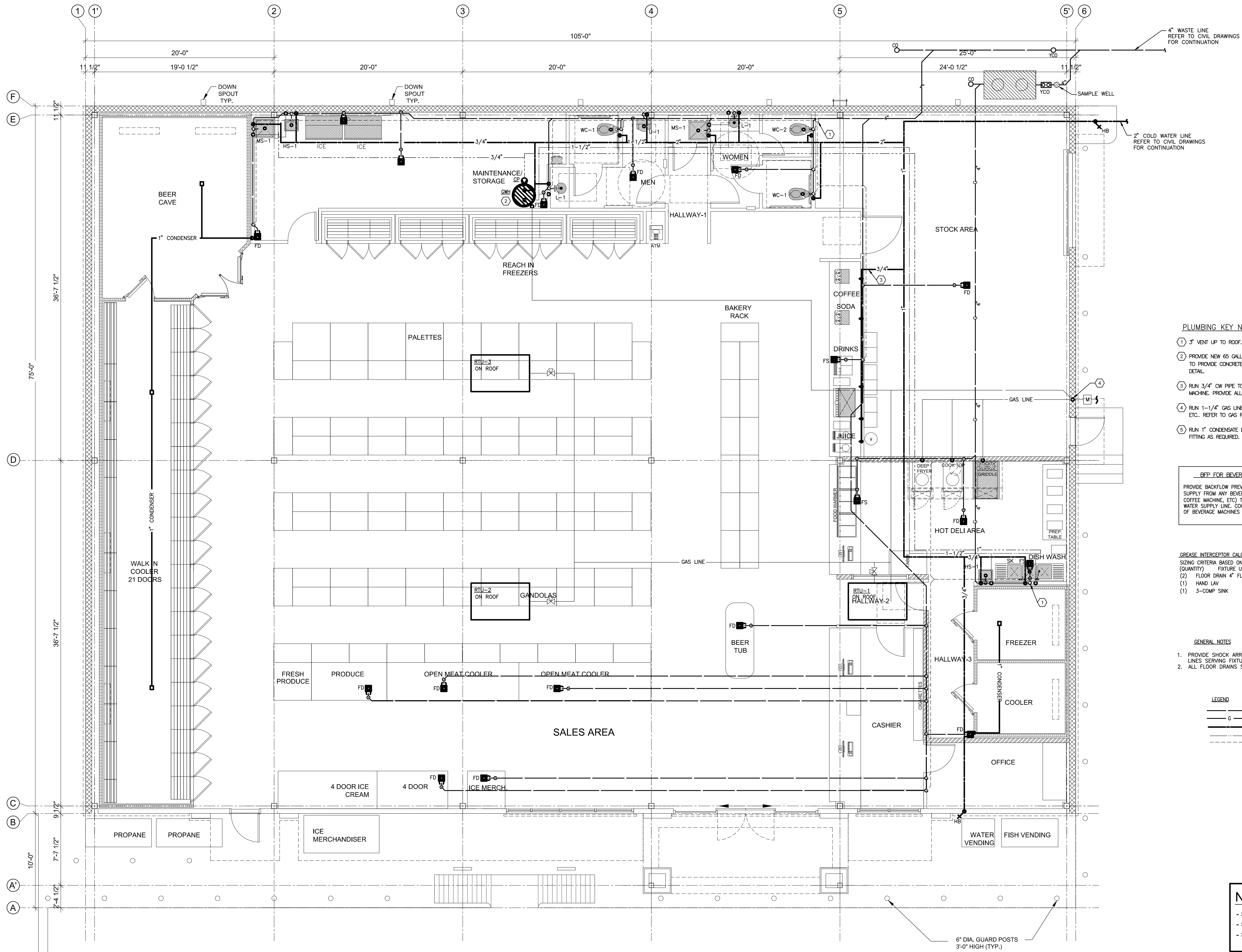
JOB NO.

18-02-003

SHEET NO.

# E5

FOOD MART, BAYSHORE



**PLUMBING KEY NOTES**

1. 3" VENT UP TO ROOF.
2. PROVIDE NEW 65 GALLONS WATER HEATER WITH 10 EXPANSION TANK, LOCHINVAR AND GRUNDFOS CIRCULATION PUMP. CONTRACTOR TO PROVIDE CONCRETE PAD, UNISTRUT, ETC.. ROUTE 3/4" RELIEF DRAIN AND WATER HEATER T&P TO FLOOR DRAIN. REFER TO DETAIL.
3. RUN 3/4" CW PIPE TO BELOW COUNTER TO SERVE COFFEE MACHINE, MIX DISPENSER BEVERAGE UNIT, GOURMET COFFEE, JUICE MACHINE. PROVIDE ALL NECESSARY FITTING AS REQUIRED. VERIFY WITH ARCHITECT DRAWINGS FOR EXACT LOCATION.
4. RUN 1-1/4" GAS LINE UP TO ROOF TO SERVE AHU'S. ROUTE 2" GAS LINE ABOVE CEILING TO SERVE KITCHEN, GAS HEATER, ETC.. REFER TO GAS RISER FOR ADDITIONAL INFORMATION.
5. RUN 1" CONDENSATE DRAIN LINE DOWN TO FLOOR DRAIN. CONNECT DRAIN LINE TO COOLER EVAPORATOR. PROVIDE ALL NECESSARY FITTING AS REQUIRED.

**BFP FOR BEVERAGE MACHINE**

PROVIDE BACKFLOW PREVENTER FOR THE PROTECTION OF WATER SUPPLY FROM ANY BEVERAGE MACHINES (SODA FOUNTAIN MACHINE, COFFEE MACHINE, ETC.) THAT MAY BACK FLOW INTO THE MAIN WATER SUPPLY LINE. COORDINATE WITH OWNER ON THE LOCATIONS OF BEVERAGE MACHINES PRIOR TO INSTALLATION.

**GREASE INTERCEPTOR CALCULATIONS:**

SIZE CRITERIA BASED ON DRAINAGE FIXTURE UNITS (QUANTITY)	FIXTURE UNIT
(2) FLOOR DRAIN 4" FLOOR DRAINS	2 DFUS EACH = 4 DFUS
(1) HAND LAV	2 DFUS EACH = 2 DFUS
(1) 3-COMP SINK	4 DFUS EACH = 4 DFUS
TOTAL = 10 DFUS	

**GENERAL NOTES**

1. PROVIDE SHOCK ARRESTORS (SA) AT END OF ALL WATER LINES SERVING FIXTURES WITH QUICK CLOSING VALVES.
2. ALL FLOOR DRAINS SHALL HAVE TRAP PRIMER.

**LEGEND**

—	WASTE PIPING
—	GREASE PIPING
—	COLD PIPING
—	HOT PIPING
—	VENT PIPING

**NOTES:**

- SEE SHEET A1.3 FOR WALL TYPES.
- SEE SHEET A7 DOORS AND WINDOWS SCHEDULE.
- SEE SHEET A7.1 FOR ROOM FINISH SCHEDULE.



SCALE : 3/16" = 1' - 0"

ALL DRAWINGS, SPECIFICATIONS, AND NOTES ARE THE PROPERTY OF WADHWA AND ASSOCIATES, INC. AND NO PART THEREOF SHALL BE REPRODUCED, COPIED, OR USED IN CONNECTION WITH ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF WADHWA AND ASSOCIATES, INC. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR THE ACCURACY OF ALL DIMENSIONS, CONDITIONS, AND LOCATIONS ON THE JOB AND IMMEDIATELY REPORT ANY VIOLATIONS FROM THESE DRAWINGS TO THE ARCHITECT.

DRAWN:

CHECKED:

DATE : JAN 2018

# NEW LAWRENCE GROCERY

902 E. BAYSHORE,  
SAN LEON, TEXAS 77539

ISSUE

06-12-18 I.F.P.



## PLUMBING FLOOR PLAN

**WADHWA AND ASSOCIATES, INC.**  
architects, planners  
and construction administration  
1220 Biolock #230 Ph: (713) 465-0009  
Houston, Texas 77055 Fax: (713) 465-2391

REVISIONS

1	
2	
3	
4	
5	

JOB NO.

18-02-003

SHEET NO.

P1

FOOD MART - BAYSHORE



GENERAL NOTES

1. VISIT SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. INFORM THE ENGINEER OF ANY CONTINGENCIES WHICH INFLUENCE THE EXECUTION OF THE WORK. NO EXTRAS WILL BE ALLOWED DUE TO FAILURE TO MAKE THE ABOVE EXAMINATION OR NEGLECT TO INCLUDE ALL MATERIALS AND LABOR REQUIRED TO PROPERLY COMPLETE THE PROJECT.
2. PERMITS, FEES AND CODE REGULATIONS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, OBTAIN ALL NECESSARY PERMITS, PAY ALL LEGAL FEES AND CHARGES PERTAINING TO THE WORK UNDER THIS SECTION, AND COMPLY WITH ALL NATIONAL CODES, STATE OR LOCAL MUNICIPAL BUILDING CODES, SAFETY LAWS, ORDINANCES AND REGULATIONS REGARDING BUILDING AND PUBLIC SAFETY APPLICABLE TO THIS PROJECT.
3. GUARANTEES: CONTRACTOR FOR THE VARIOUS PORTIONS OF THE WORK UNDER THIS SECTION SHALL GUARANTEE AND FURNISH WRITTEN CERTIFICATES TO THIS EFFECT, THAT ALL SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER AND THAT ANY AND ALL DEFECTS WHICH DEVELOP WITHIN ONE (1) YEAR, EXCEPTING NORMAL WEAR AND TEAR, WILL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
4. SHOP DRAWINGS, SUBMITTAL DRAWINGS AND RECORD DRAWINGS: SUBMIT SHOP DRAWINGS, SUBMITTAL DRAWINGS AND RECORD DRAWINGS TO THE ARCHITECT.
5. CLARITY AND UNDERSTANDING OF CONTRACT DOCUMENTS: THE CONTRACTORS, BY SUBMITTING A BID, SHALL INDICATE THAT THEY HAVE THOROUGHLY REVIEWED THE DOCUMENTS AND IN THEIR OPINION AGREE THAT THE WORK SHOWN OR INDICATED THEREON IS FEASIBLE FOR A PROJECT OF THIS NATURE AND THAT EACH CONTRACTOR IS CAPABLE FINANCIALLY AND OTHERWISE, OF PERFORMING ALL THE WORK SHOWN.
6. SCOPE OF WORK: PROVIDE A NEW PLUMBING SYSTEM AS SHOWN ON DRAWINGS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES AND TO PRESENT A NEAT, WORKMANLIKE APPEARANCE. INTERFERENCES WHICH RESULT FROM POOR COORDINATION WILL NOT BE CONSIDERED AS EXTRA WORK. ALL MINOR DEVIATIONS REQUIRED DUE TO INTERFERENCES WITH THE WORK OF OTHERS SHALL BE MADE BY PLUMBING CONTRACTOR AT NO ADDITIONAL COST.
7. THE DRAWINGS ARE SCHEMATIC IN NATURE AND SHOW APPROXIMATE LOCATION OF EQUIPMENT, PIPING AND FIXTURES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY LOCATIONS OF OLD AND NEW EQUIPMENT, PIPING AND FIXTURES.
8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE STATE, CITY AND LOCAL CODES.
9. ALL SANITARY AND VENT LINES SHALL BE HUB LESS PVC SHED. 40 PIPE CONFORMING TO ASTM D-2665.
10. ROVIDE CLEAN OUTS WHERE INDICATED ON PLANS. UNFURNISHED AREAS SHALL BE ZURN NO. 21440-1 SUPREMO CLEAN OUT WITH CADMIUM PLATED CAST IRON PLUG.
11. HOT AND COLD WATER PIPING SEE PLUMBING MATERIAL LIST. PROVIDE ISOLATION FITTINGS WHERE DISSIMILAR MATERIALS ARE USED.
12. INSULATE HOT AND COLD WATER LINES ABOVE CEILING WITH 1-1/2" JOHNS-MANSVILLE MICROLOC 650AP OR AP-T FIBERGLASS INSULATION WITH KRAFT-SCRM-FOIL VAPOR BARRIER JACKET.
13. ALL INTERIOR GAS PIPING SHALL BE INSTALLED SO AS TO GRADE TOWARDS THE GAS GRADE. GAS PIPING CONCEALED IN WALLS, CHASES OR ABOVE CEILING SHALL BE INSTALLED IN A SCHEDULE 20 WELDED STEEL SLEEVE VENTED TO OUTSIDE ATMOSPHERE. GAS PIPING SHALL BE ASTM A53, SCHEDULE 40, BLACK STEEL JOINED BY SCHEDULE 40 BLACK WELDING FITTINGS. PROVIDE CONDENSATION TRAPS WITH REMOVABLE CAPS AT ALL EQUIPMENT CONNECTIONS.
14. PROVIDE AIR CHAMBERS AT EACH HOT AND COLD WATER SUPPLY PIPE AT EACH FIXTURE. PROVIDE AN AIR CHAMBER ONE SIZE LARGER THAN THE FIXTURE BRANCH AND NOT LESS THAN 18" HIGH.

PLUMBING NOTES:

1. ALL PLUMBING INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES AND ADA REQUIREMENTS, AND ASTM E2336 GUIDELINES.
2. INSTALL ALL THREADED CLEANOUT PLUGS WITH PIPE DOPE TO ALLOW EASY REMOVAL IN THE FUTURE.
3. IT WILL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO INSURE THAT ITEMS TO BE FURNISHED UNDER PLUMBING CONTRACT WILL FIT THE SPACE AVAILABLE - PLUMBING CONTRACTOR SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SHALL FURNISH AND NSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
4. GENERAL CONTRACTOR SHALL PROVIDE ALL OPENINGS IN THE ROOF WITH EACH CONTRACTOR RESPONSIBLE FOR VERIFYING LOCATION AND SIZES OF ALL OPENINGS REQUIRED UNDER HIS CONTRACT, UNLESS NOTED OTHERWISE ON THE PLANS.
5. PLUMBING CONTRACTOR SHALL SUPPLY AND INSTALL GAS PIPING AS SHOWN ON PLANS. ALL GAS PIPING SHALL COMPLY WITH LOCAL CODES. PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL GAS EQUIPMENT. PROVIDE/INSTALL REGULATORS AT HVAC AND WATER HEATER EQUIPMENT WHERE REQUIRED TO REDUCE TO NORMAL OPERATING PRESSURE OF THE EQUIPMENT AS INDICATED ON THE EQUIPMENT NAME PLATES. DO NOT PRESSURE CHECK GAS LINES WHEN HOOKED UP TO EQUIPMENT OR HVAC UNITS. FINAL LEAK TEST FROM SHUTOFF TO EQUIPMENT SHALL BE DONE UNDER NORMAL PRESSURE WITH SOAP/WATER SOLUTION AFTER GAS PIPING IS CONNECTED.
6. PLUMBING CONTRACTOR SHALL INSTALL SHOCK ABSORBERS TO MEET ALL STATE AND LOCAL CODE REQUIREMENTS.
7. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR APPROVED FLOOR PLAN AND DIMENSIONS. DO NOT SCALE PLUMBING DRAWINGS.
8. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING CONDENSATE DRAIN PIPING ON AIR HANDLING UNITS. COORDINATE WORK WITH MECHANICAL CONTRACTOR.
9. PLUMBING CONTRACTOR SHALL INSTALL WATER SUPPLY PIPES SO THAT NO PIPE JOINTS ARE UNDER FLOOR SLAB.
10. ALL PIPES PASSING THROUGH FLOOR SLAB OR EXTERIOR WALLS SHALL BE INSTALLED WITH A PIPE SLEEVE AS REQUIRED, AND SEALED LIQUIDTIGHT. SEE STRUCTURAL SHEETS.
11. ALL INDIRECT WASTE OUTLETS SHALL TERMINATE WITH A 2" AIR GAP (MIN.)
12. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR VENT LINE TESTS AND WASTE SYSTEM TESTS, PER LOCAL CODE REQUIREMENTS. ALL HVAC AND EXHAUST SYSTEMS MUST BE RUNNING WHILE THESE TESTS ARE BEING PERFORMED. THE PLUMBING CONTRACTOR SHALL PROVIDE A CERTIFICATE TO THE OWNER VERIFYING COMPLIANCE AND ACCEPTANCE OF THESE TESTS.
13. P.C. SHALL PROVIDE/INSTALL INSULATION ON ALL CW/HW MAINS OUTSIDE OF BUILDING CONNECTED TO TANKLESS WATER HEATER PER MANUFACTURER'S REQUIREMENTS. P.C. SHALL PROVIDE/INSTALL 1" INSULATION ON ALL CW/HW MAINS INSIDE OF THE BUILDING. 1/2" INSULATION MIN. ON ALL BRANCHES. CONDUCTIVITY RANGE SHALL BE 0.24 TO 0.28 BTU-IN/(HR-FT -F). CW PIPING SHALL BE INSULATED TO PREVENT CONDENSATION.
14. VACUUM BREAKERS SHALL BE INSTALLED ON ALL HOSE BIBBS.
15. ALL WATER PIPING UNDER CONCRETE SLAB SHALL BE TYPE 'L' SOFT DRAIN COPPER.
16. P.C. SHALL FURNISH AND INSTALL A VACUUM BREAKER TYPE BACK-FLOW PREVENTER, AS REQUIRED BY LOCAL CODES, AT ANY POINT WHERE THERE IS DANGER OF THE NON-POTABLE WATER SYSTEM COMING IN CONTACT WITH THE POTABLE WATER SYSTEM OR ANY DANGER OF BACK-FLOW. COORDINATE WITH LOCAL INSPECTOR.
17. MECHANICAL DUCTWORK SHALL HAVE RIGHT-OF-WAY OVER ALL PLUMBING PIPES AND ELECTRICAL CONDUITS.
18. ALL FLOOR/HUB DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH DEEP SEAL TRAPS.
19. IF INCOMING WATER PRESSURE TO THE BUILDING EXCEEDS 80 PSI., A WATER PRESSURE REDUCING VALVE WITH STRAINER SHALL BE INSTALLED JUST DOWN STREAM OF BUILDING MAIN ISOLATION VALVE.
20. P.C. SHALL INSTALL WATER METER IN APPROVED EXTERIOR LOCATION AND ENCLOSURE; COORDINATE ALL REQUIREMENTS WITH LOCAL WATER CO. SEE SITE PLAN FOR EQUIPMENT LOCATIONS. PROVIDE ALL NECESSARY PLUMBING EQUIPMENT TO ENSURE PROPERLY OPERATING WATER AND SEWER SERVICE.
21. P.C. SHALL REFERENCE SHEETS A1.2, A1.3 AND P9 FOR EQUIPMENT NUMBERS.
22. P.C. SHALL REFERENCE SHEET A1.3 FOR HEALTH NOTES.
23. P.C. SHALL ROUTE 3/4" DIA. COPPER CONDENSATE DRAIN LINE FROM RTU'S (3/4" DIA. INSIDE CURBS), INTERCONNECT AND RUN 1" DIA. TO MOP SINK. TERMINATE WITH 2" AIR GAP (MIN.) AND INSULATE DRAIN LINE ABOVE CEILING PER SPECIFICATIONS.
24. PROVIDE AND INSTALL A WATTS #N9 VACUUM BREAKER ON WATER SUPPLY LINE TO SODA DISPENSERS.

BACKFLOW PREVENTION SCHEDULE

EQUIPMENT	MEDIUM HAZARD APPLICATIONS (SEE NOTE 1)	HIGH HAZARD APPLICATIONS (SEE NOTE 1 & 2)
ICE MACHINE	WATTS MODEL: SD-2	WATTS MODEL: N9
HOT WATER HEATER	WATTS MODEL: SD-2	WATTS MODEL: 9D
CARBONATOR	WATTS MODEL: 9BD (NOTE 3)	WATTS MODEL: 9BD (NOTE 3)
HOSE BIBB (HB)	INTEGRAL VACUUM BREAKER	INTEGRAL VACUUM BREAKER
HOSE BIBB (NFHB)	INTEGRAL VACUUM BREAKER	INTEGRAL VACUUM BREAKER

- NOTES:
- P.C. SHALL VERIFY BACKFLOW REQUIREMENT WITH LOCAL CODE OFFICIALS. USE MEDIUM HAZARD BACKFLOW DEVICES UNLESS LOCAL CODE OFFICIALS CLASSIFY AS HIGH HAZARD.
  - P.C. SHALL INSTALL PER MANUFACTURER'S RECOMMENDATIONS, AND VENT PIPE TO DRAIN WHERE NEEDED INDIRECTLY WITH 2" (MIN.) AIR GAP.
  - P.C. SHALL USE PLASTIC TUBING DOWNSTREAM OF THE CARBONATOR.
  - BACKFLOW DEVICE ON CARBONATORS SHALL BE INSTALLED BY REGISTERED CONTRACTOR, APPROVED BY LOCAL REGULATIONS.

PLUMBING MATERIAL LIST

ABOVE GRADE, INSIDE BUILDING SANITARY WASTE AND VENT PIPING
PVC SCH. 40 PIPING, OR AS REQUIRED BY LOCAL CODE.
DOMESTIC WATER PIPING
ALL WATER LINES IN CEILING AND WALL SHALL BE ASTM A-120 OR GREATER SCHEDULE 40 GALVANIZED IRON PIPE.
BELOW GRADE, INSIDE BUILDING SANITARY WASTE AND VENT PIPING
PVC SCHED. 40 PROVIDE SLOPE 1/8" PER FOOT MIN. OR AS REQUIRED BY LOCAL CODES.
DOMESTIC WATER PIPING
ANNEALED (SOFT) COPPER WATER TUBE TYPE "K", ASTM B88, WITH NO JOINTS OR FITTINGS BELOW SLAB. WHEN JOINTS ARE REQ'D USE SILVER SOLDER.
BELOW GRADE, OUTSIDE BUILDING DOMESTIC WATER PIPING (VERIFY W/CITY CODE AUTHORITY)
SIZE 2-1/2" INCHES AND SMALLER: SCH. 40 PVC OR EQUIVALENT WITH GLUED JOINTS.
DOMESTIC WATER PIPING
SIZE 2-1/2" INCHES AND LARGER: SHALL BE SCH. 40 PVC OR EQUIVALENT WITH PUSH-ON JOINT.
BELOW GRADE, OUTSIDE BUILDING SANITARY WASTE AND VENT PIPING
PVC SCHEDULE 40 PIPING, SLOPE AS REQUIRED BY LOCAL CODE.

PLUMBING FIXTURE SCHEDULE

SYM.	DESCRIPTION	PROVIDE THE FOLLOWING SIZE BRANCH CONNECTION TO THE DISTRIBUTION MAIN UNLESS OTHERWISE SPECIFIED					P-TRAP SIZE	SPEC. & MODEL
		C.W.	H.W.	SAN.	VENT.	REMARKS		
WC-1	WATER CLOSET	1"	--	4"	2"	--	INTEGRAL	VORMAX PLUS RIGHT HEIGHT ELONGATED COMPLETE TOILET, 1.28 GPF, MODEL #708AA.101.020 WHITE W/ OPEN SEAT
WC-2	HANDICAPPED WATER CLOSET	1"	--	4"	2"	INSTALL PER ADA.	INTEGRAL	EDGEMERE RIGHT HEIGHT ELONGATED TOILET, 1.28 GPF, MODEL #204AA.104.020 WHITE W/ OPEN SEAT
U-1	H.C. URINAL	3/4"	--	2"	1-1/2"	WALL HUNG INSTALL PER ADA. 17" MAX. HEIGHT TO RIM		AMERICAN STD., DECORUM 0.125 GPF, 6042-633 W/ ELECTRONIC URINAL FLUSH VALVE
L-1	LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"		1-1/4"	AMERICAN STD. "OVALYN UNDERCOUNTER SINK" BOWL: 17" X 14" X 5-1/2" / UNDERMOUNT (GRANITE), 0496.221.020. FAUCET: KOHLER "CORALAIS" SINGLE CONTROL WITH RED/BLUE INDEX AND GRID DRAIN 1.50 GPM (WATERSENSE CERTIFIED) 4-5/8" SPOUT / 4" CENTERS, K-15198-XF-CP. STRAINER: "DUOSTRAINER" K-8801-CP
L-2	LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	WALL HUNG	1-1/4"	AMERICAN STD., ELLISSE 9000-000, W/ AMERICAN STD. FAUCET AND LEVER HANDLE MODEL # 2385.001
MS-1	MOP SINK	1/2"	1/2"	3"	2"	--	3"	ZURN 24" X 24" Z1996-24, COMPLETE W/ WALL MOUNTED FAUCET EXPOSED YOKE WALL MOUNT UTILITY FAUCET WITH TOP BRACE AMER. STD. 6344.012.002, COMPLETE W/ RUBBER HOSE, S.S. WALL GUARD, MOP AND MOP HOLDER
FD	FLOOR DRAIN	--	--	2",3"	2"	WITH TRAP PRIMER	2",3"	ZURN
FS	FLOOR SINK	--	--	3"	2"	WITH TRAP PRIMER	3"	ZURN Z-1901-33
WH-1	TANKLESS GAS WATER HEATER	3/4"	3/4"	--	4"	2- REQD. INSTALL PER MANUF'R RECOMMENDATION	--	RINNAI TANKLESS INDOOR, GAS MODEL # R94LSI-VB2735FFUD-US
WH-2 & WH-3	TANKLESS GAS WATER HEATER	3/4"	3/4"	--	4"	1- REQD. INSTALL PER MANUF'R RECOMMENDATION	--	RINNAI TANKLESS INDOOR, GAS MODEL # R94LSI-VB2735FFUD-US
HB	HOSE BIB	3/4"	--	--	--	--	--	WOOD FORD MODEL 65 W/ VACCUM BREAKER
GT	GREASE TRAP 1500 GAL.	--	--	4"	2"	INSTALL AS PER DETAIL SEE SHT. P8		PARK EQUIPMENT COMPANY MODEL # GT-1500
SW	SAMPLE WELL	--	--	4"	--	INSTALL AS PER DETAIL SEE SHT. P8		PARK EQUIPMENT COMPANY
SK	3 COMPARTMENT SINK	3/4"	3/4"	1-1/2"	1-1/2"	DRAIN TO FLOOR SINK		SEE SHEET A1.3
HS-1	HAND SINK	1/2"	1/2"	1-1/2"	1-1/2"	INSTALL PER ADA.		SEE SHEET A1.3
IM	ICE MAKER	1/2"	--	--	--	PROVIDE FILTERED WATER		BY OWNER
SM	SODA MACHINE	1/2"	--	--	--	PROVIDE FILTERED WATER		BY OWNER
CM	COFFEE MAKER	1/2"	--	--	--	PROVIDE FILTERED WATER		BY OWNER
TP	TRAP PRIMER	1/2"	--	--	--	--	--	PRECISION PLUMBING PRODUCT PI-500
TMV	THERMOSTATIC MIXING VALVES	SEE PLANS	SEE PLANS	--	--	SEE NOTE "Z"	--	POWER SERIES LFG480 CONFORMS TO ASSE 1070

NOTE:

- SEE SHEETS P1 AND SHEET A1.3 FOR ADDITIONAL KITCHEN EQUIPMENT FOR PLUMBING REQUIREMENTS.
- TEMPERED WATER REQUIRED FOR RESTROOM LAVATORIES AND HAND SINKS. TEMPERATURE RANGE: 85-110 DEGREES. TEMPERED WATER LIMITING DEVICE SHALL CONFORM TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAXIMUM OF 110°F.

PLUMBING WASTE AND WATER CALCULATION

FIXTURE TYPE	QTY	D.F.U. (EA)	TOTAL D.F.U.	HOT S.F.U. (EA)	COLD S.F.U. (EA)	COMBINED S.F.U. (EA)	TOTAL S.F.U. (HOT)	TOTAL S.F.U. (COLD)	TOTAL SERVICE S.F.U.
PUBLIC LAVATORY	2	2.0	4.0	1.50	1.50	2.00	3.00	3.00	6.00
SERVICE SINK (MOP BASIN)	2	3.0	3.0	2.25	2.25	3.00	2.25	2.25	4.50
FLOOR DRAIN	14	2.0	2.0	0.00	0.00	0.00	0.00	0.00	0.00
FLOOR SINK	3	2.0	2.0	0.00	0.00	0.00	0.00	0.00	0.00
PUBLIC WATER CLOSET (1.6 GPF FLUSH TANK)	3	4.0	8.0	0.00	5.00	5.00	0.00	10.0	15.0
PUBLIC WATER CLOSET URINALS	1	2.0	4.0	0.00	1.5	1.5	0.00	1.5	1.5
SPECIALTY KITCHEN EQUIP.									
SINK (HAND) (1-1/2" IW)	2	2.0	4.0	1.50	1.50	2.00	3	3	4.0
SINK (PREP / VEGGIE) (2" IW)	0	3.0	3.0	1.50	1.50	2.00	1.5	1.5	0.00
SINK (3 COMPARTMENT) (2" IW)	1	3.0	3.0	3.00	3.00	4.00	3	3	4.0
ICE MACHINE (3/4" IW)	1	0.5	0.5	0.00	1.00	1.00	0	1	1.0
COFFEE MAKER (3/4" IW)	1	0.5	0.5	0.00	0.50	0.50	0	0.5	0.5
SODA MACHINE (3/4" IW)	1	0.5	0.5	0.00	0.50	0.50	0	0.5	0.5
TOTAL UNITS:	31		31.5				11.25	23.25	37.00

SCALE : NO SCALE

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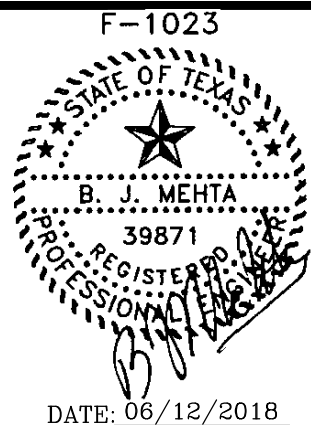
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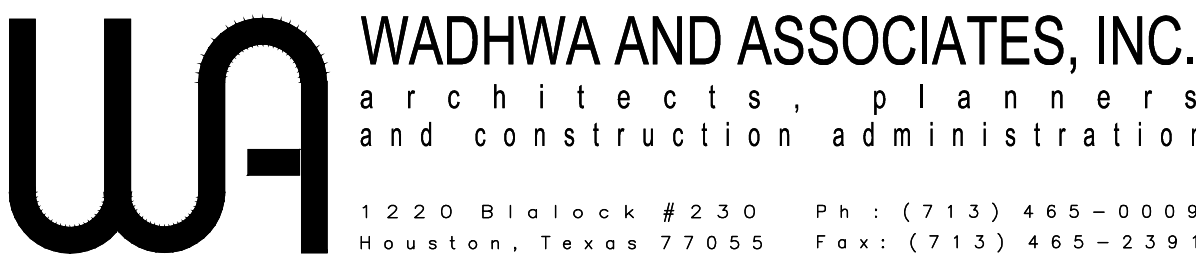
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PLUMBING NOTES & SCHEDULES



REVISIONS

03-01-17 REVISED AS NOTED PER CITY COMMENTS

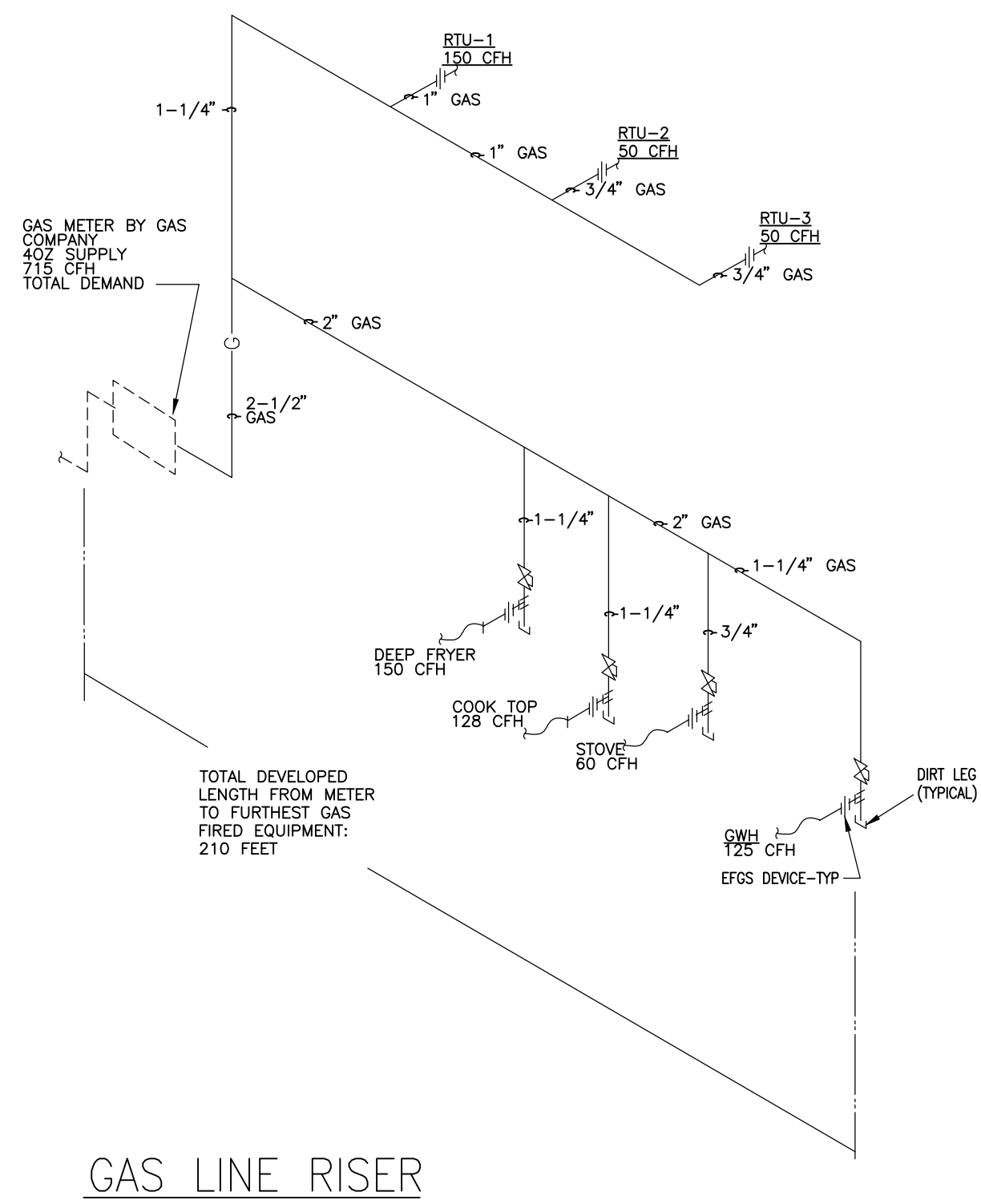
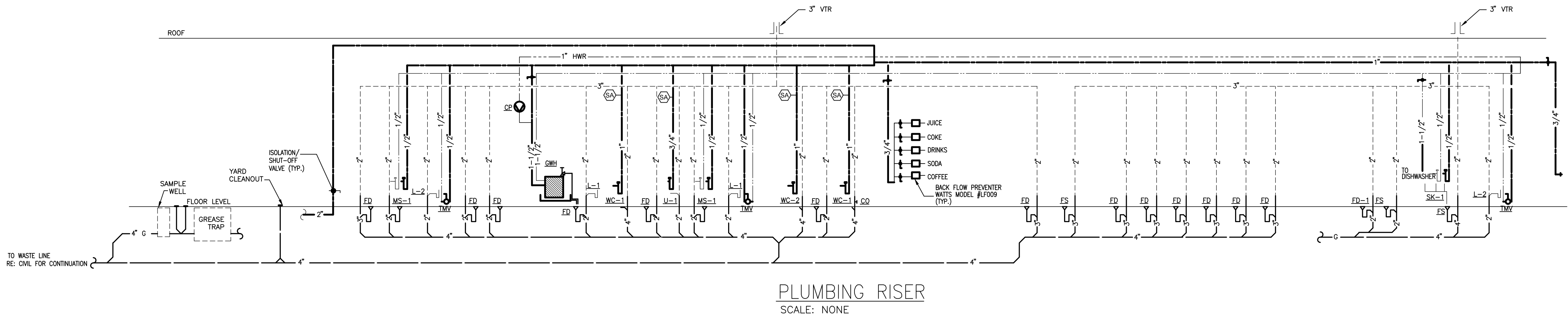
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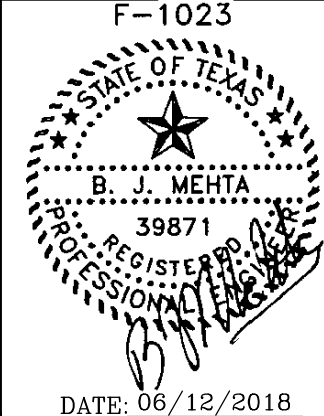


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PLUMBING RISERS

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R E V I S I O N S	
△	03-01-17 REVISED DRAWING PER CITY COMMENTS
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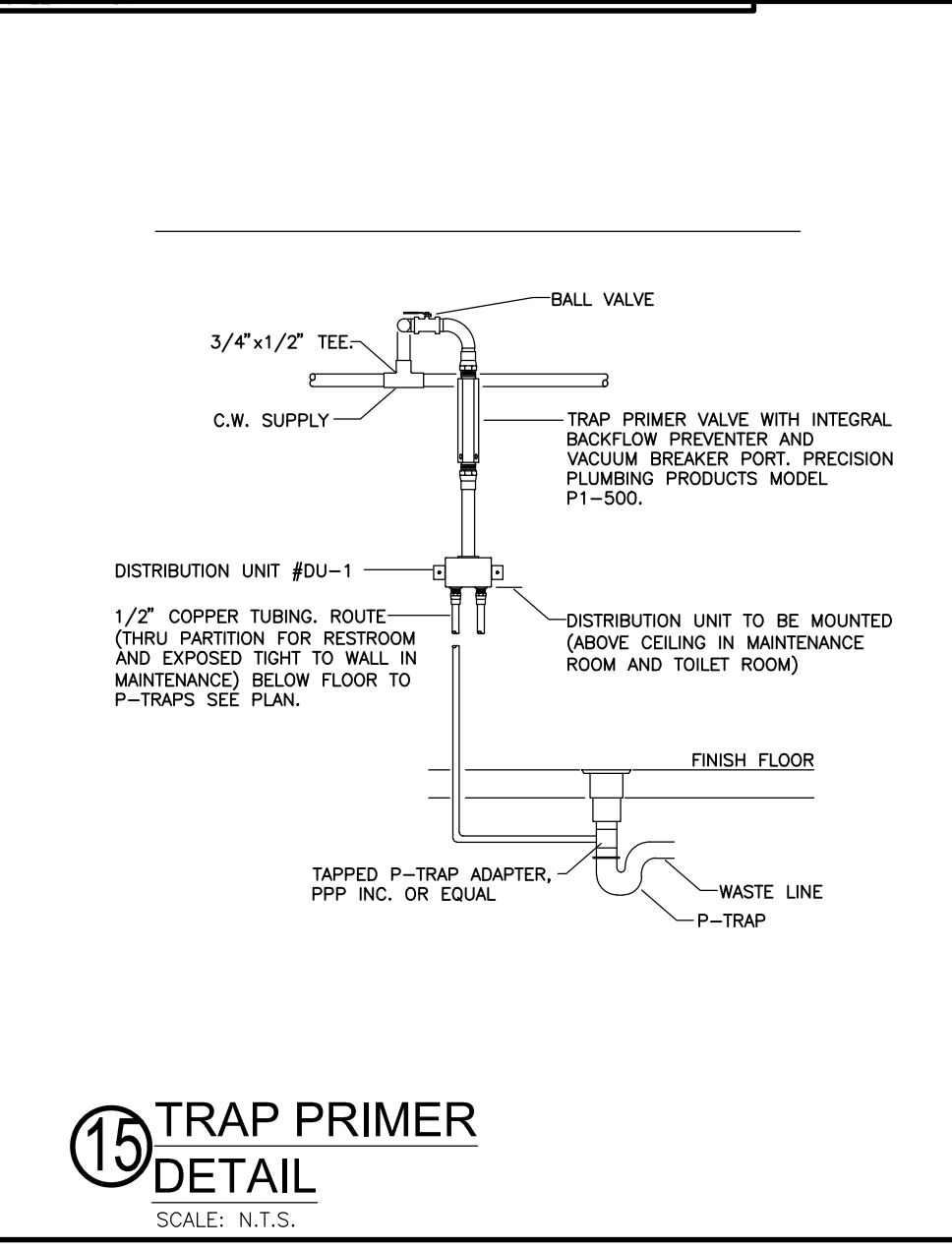
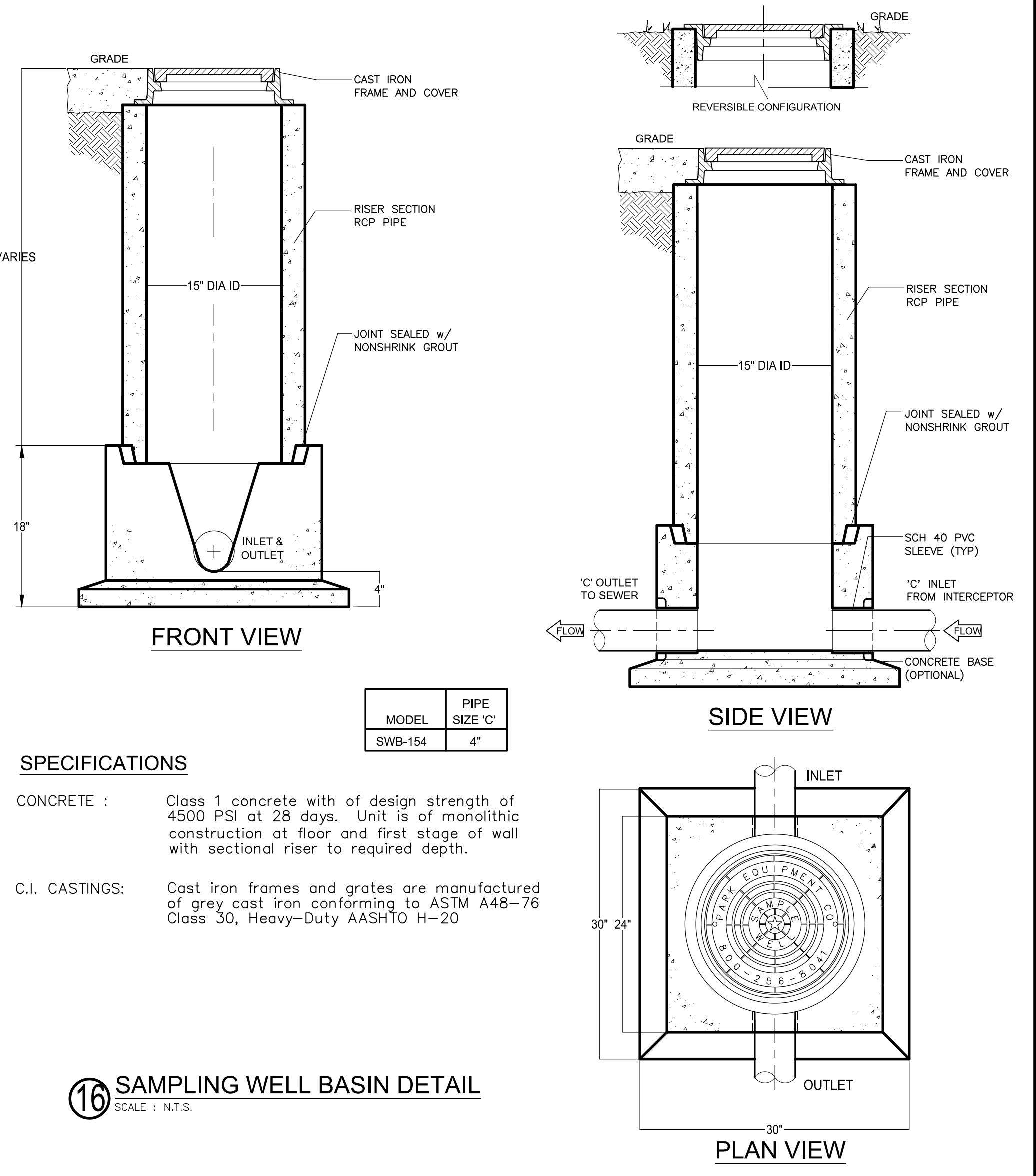
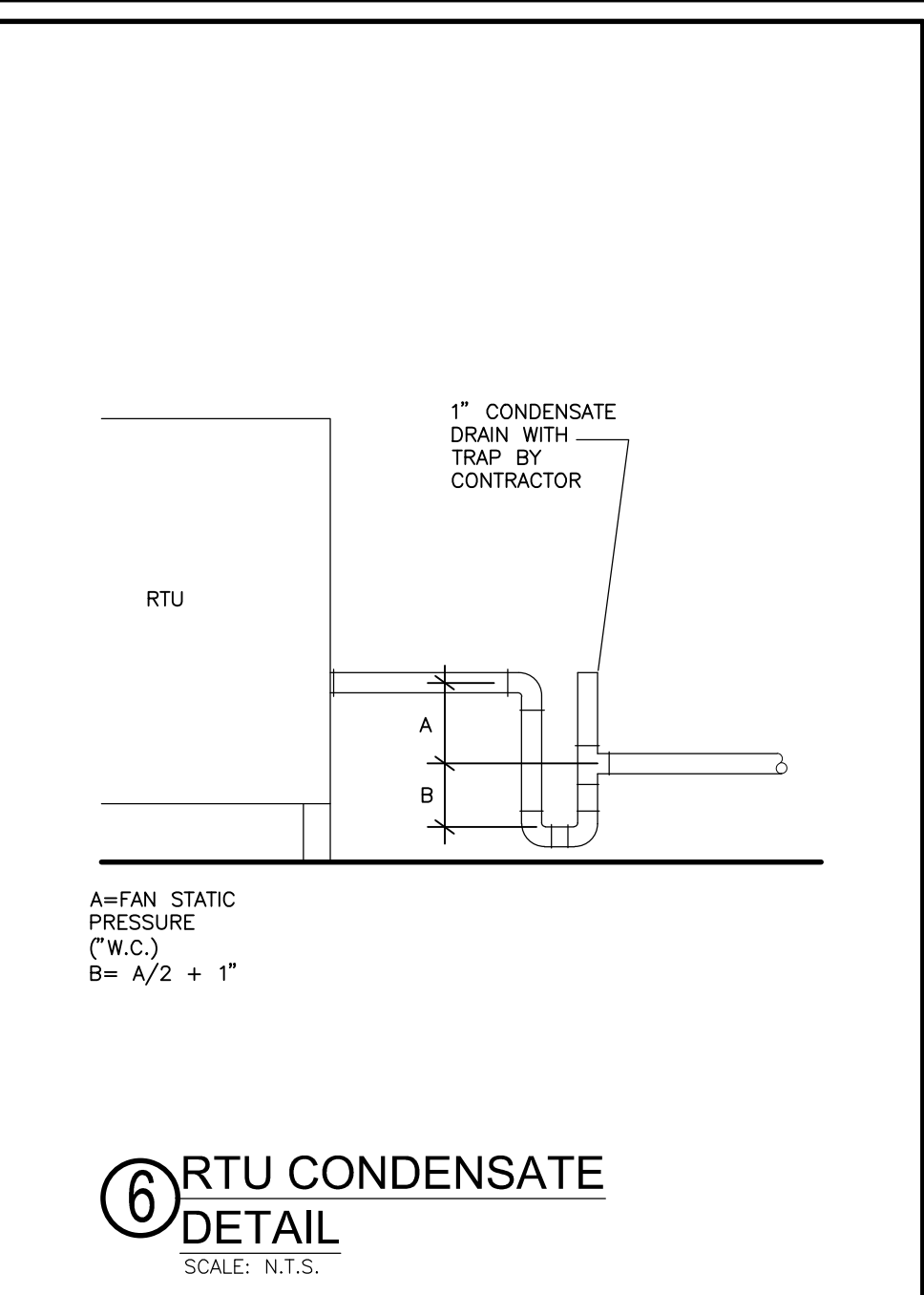
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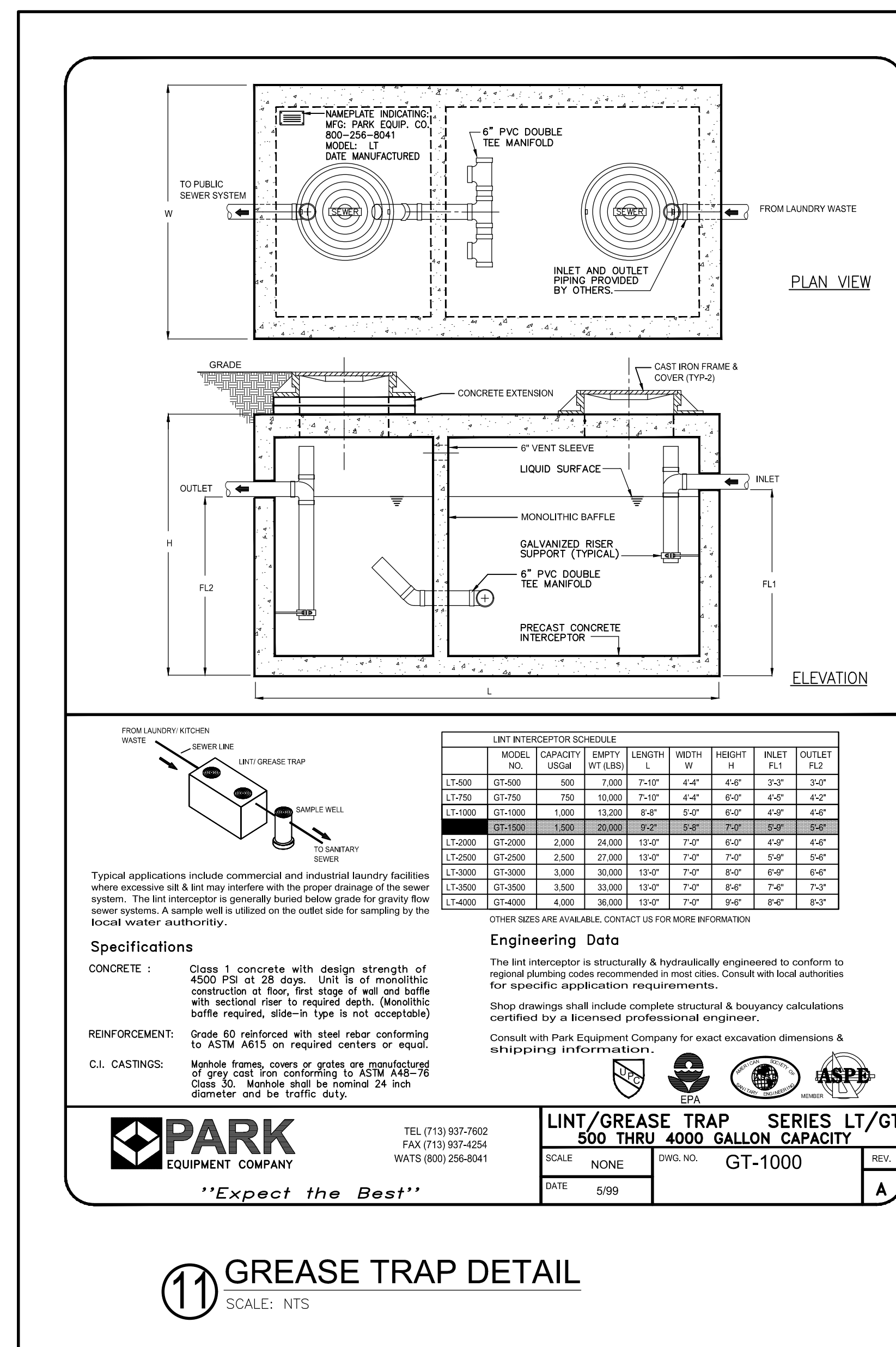
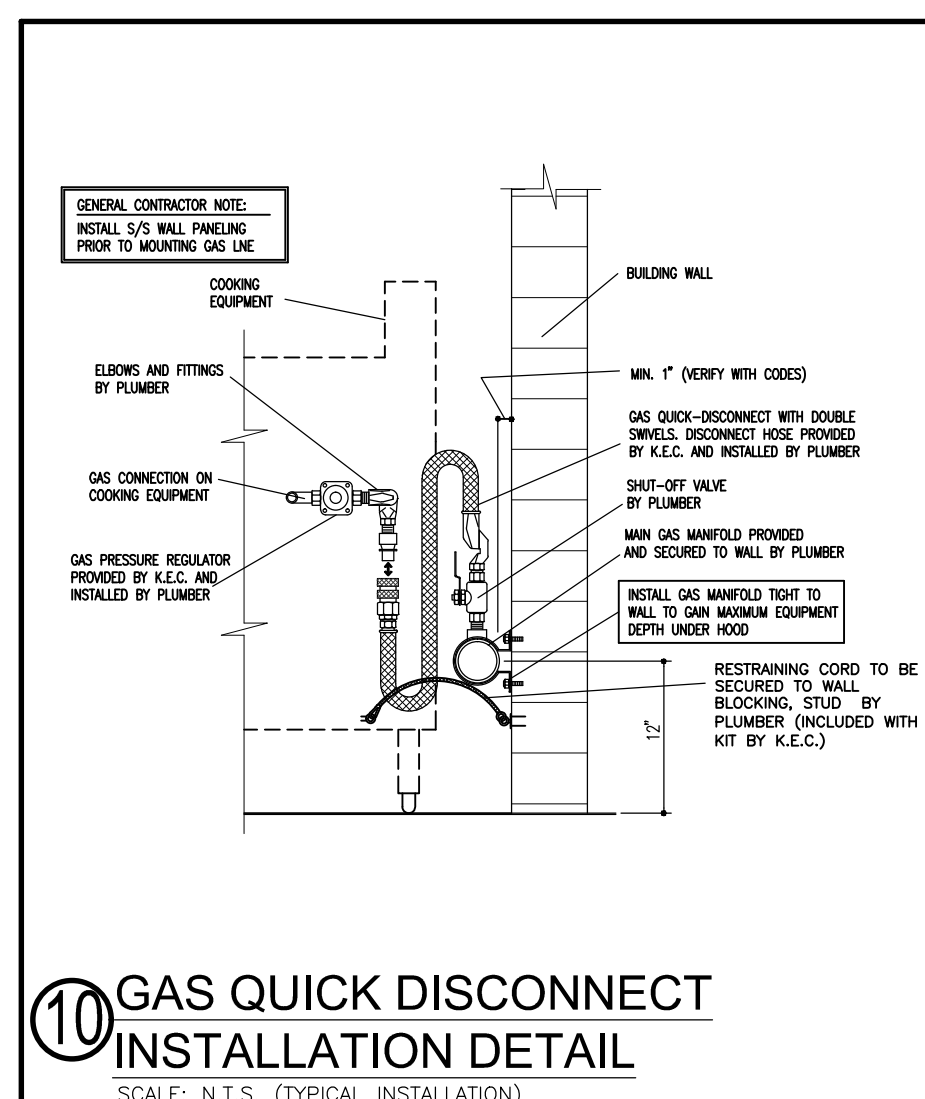
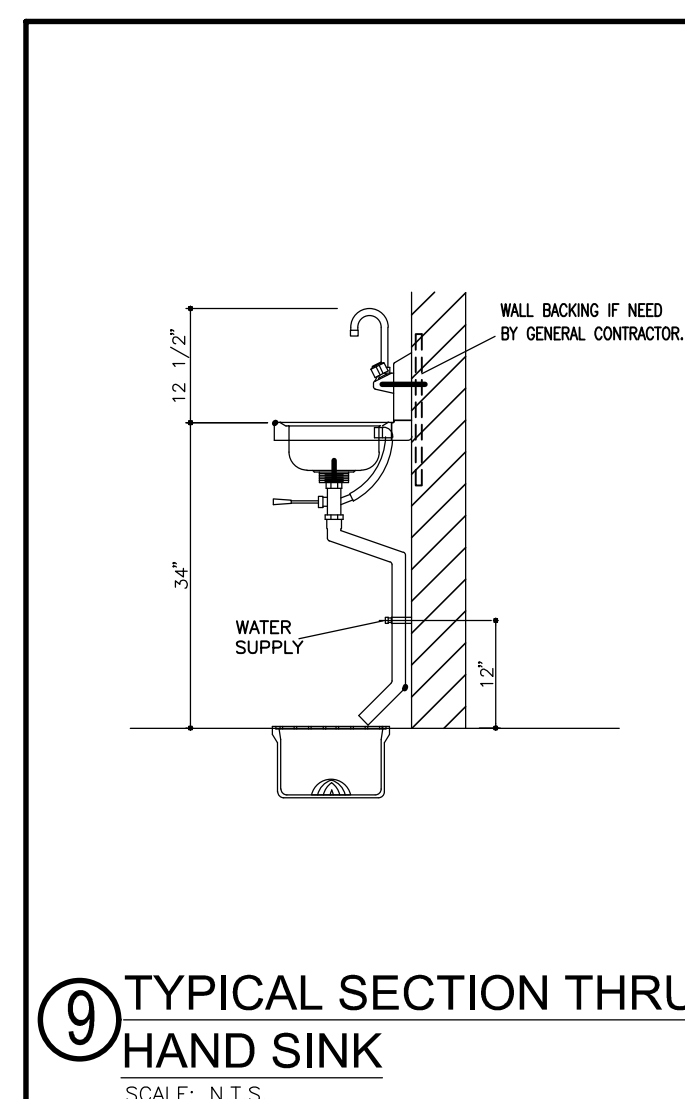
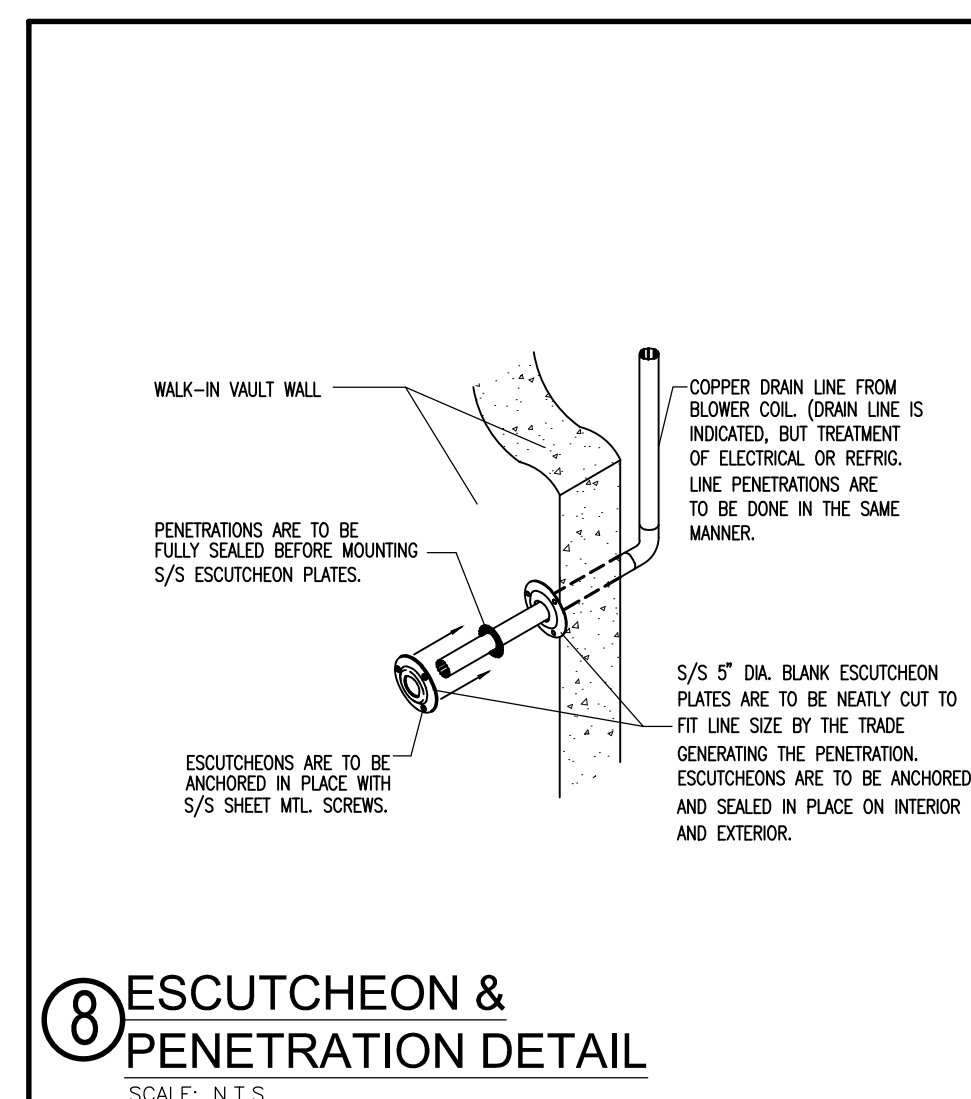
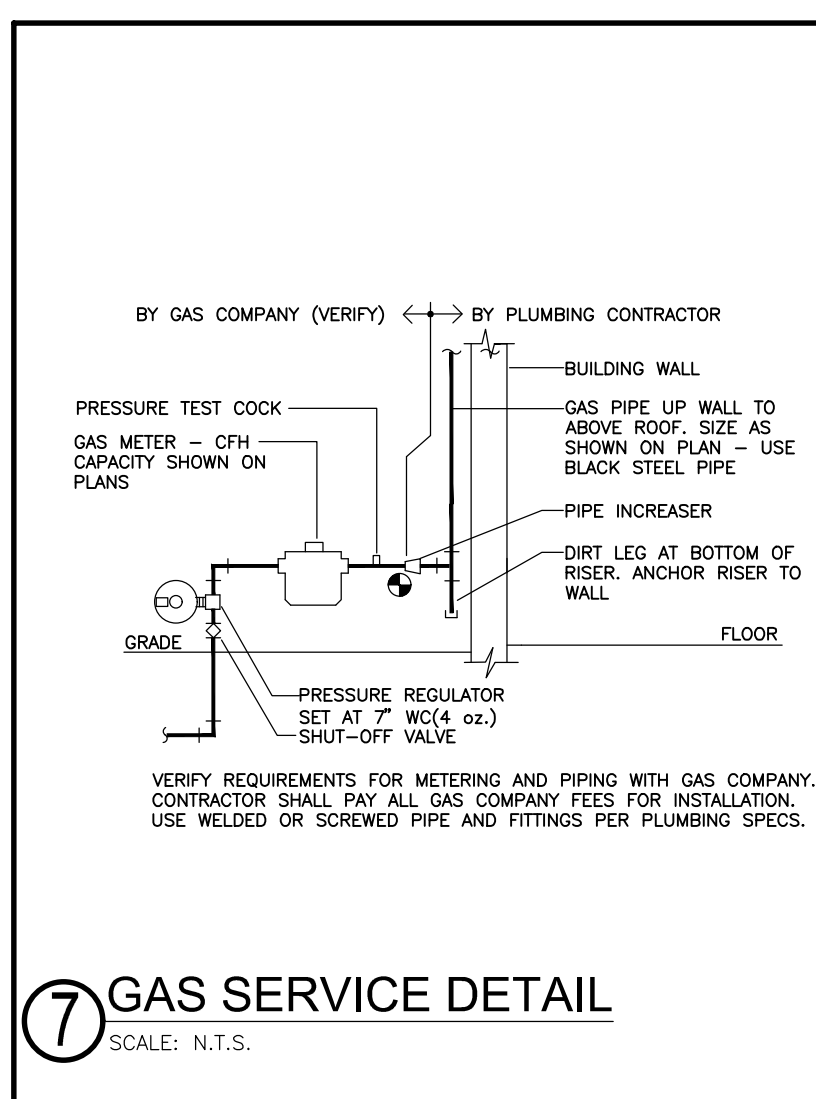
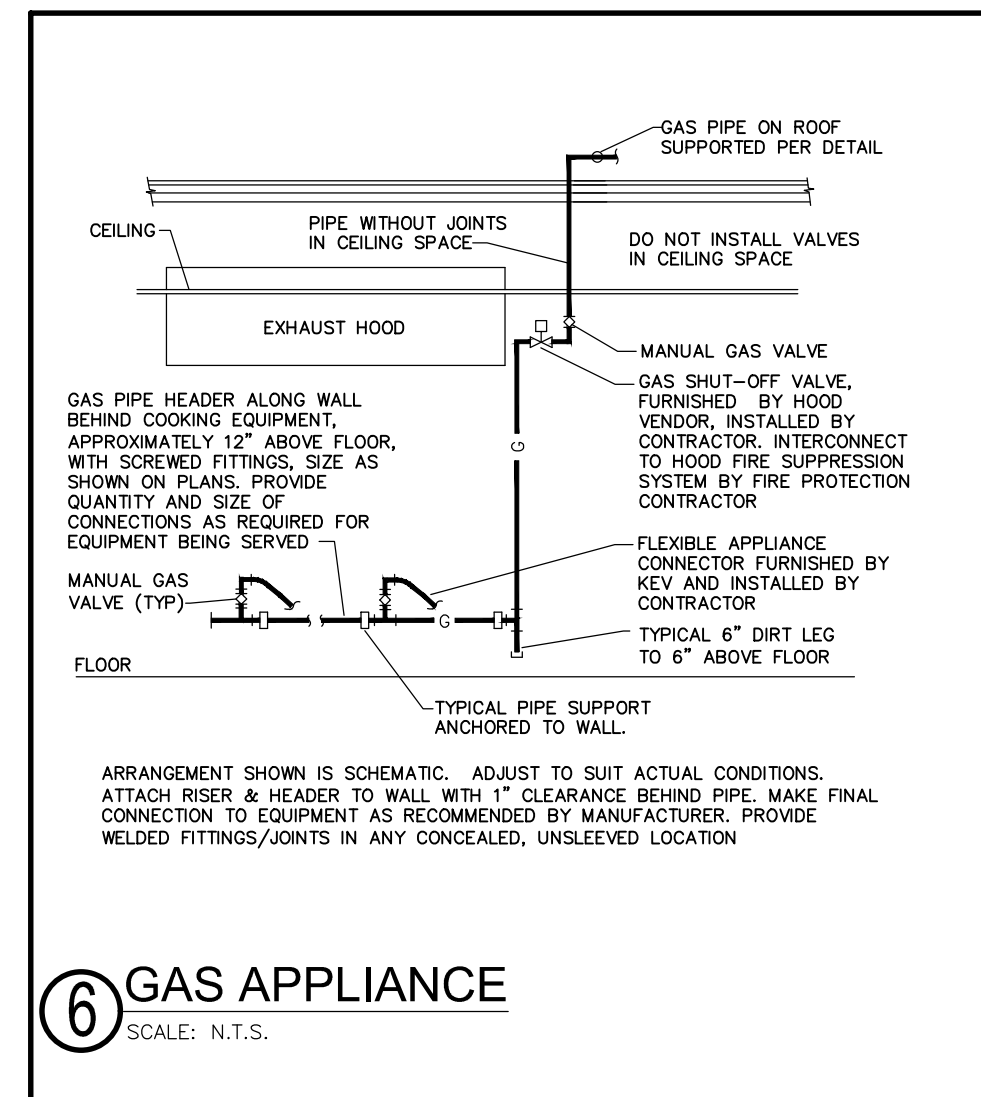
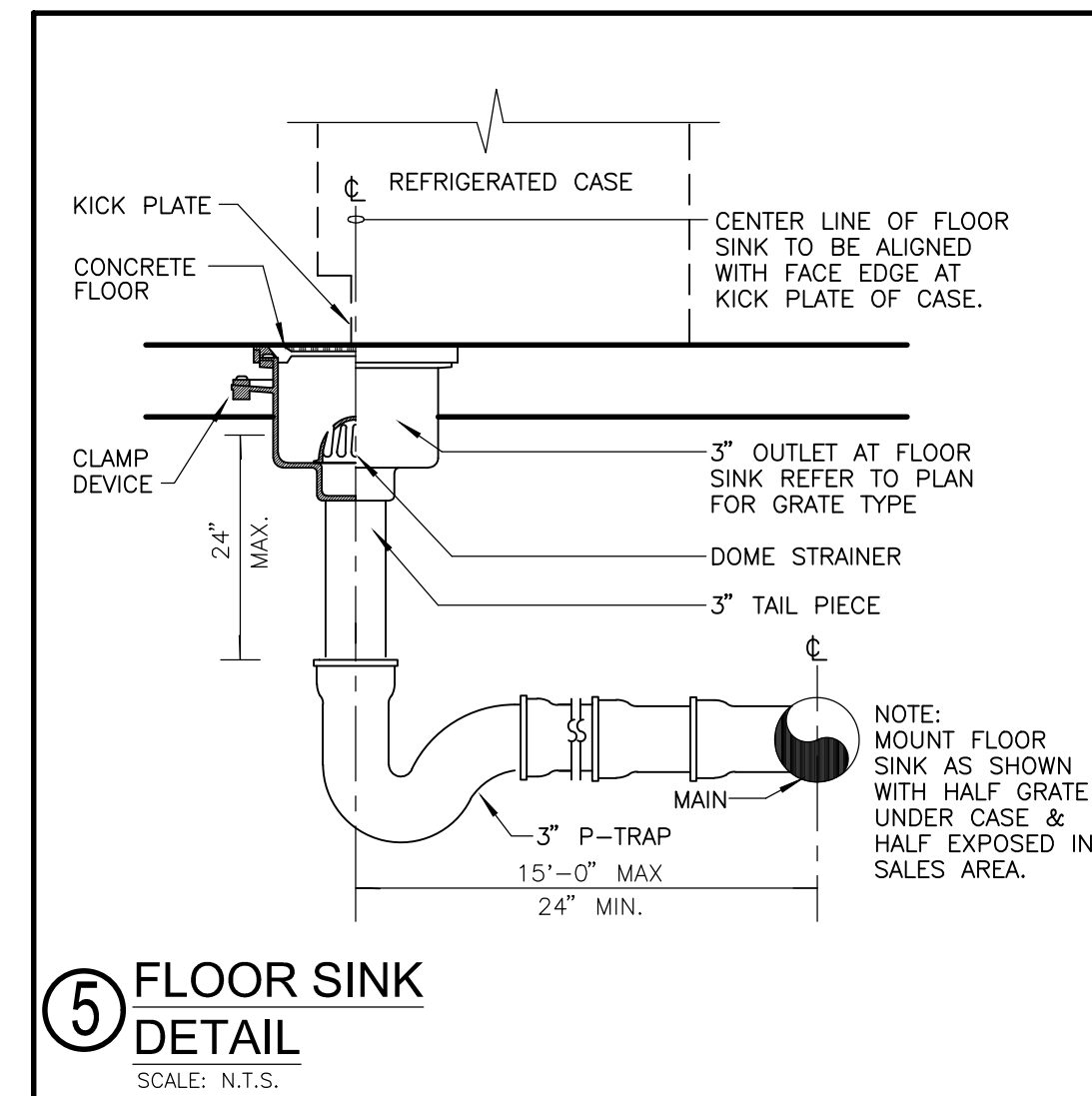
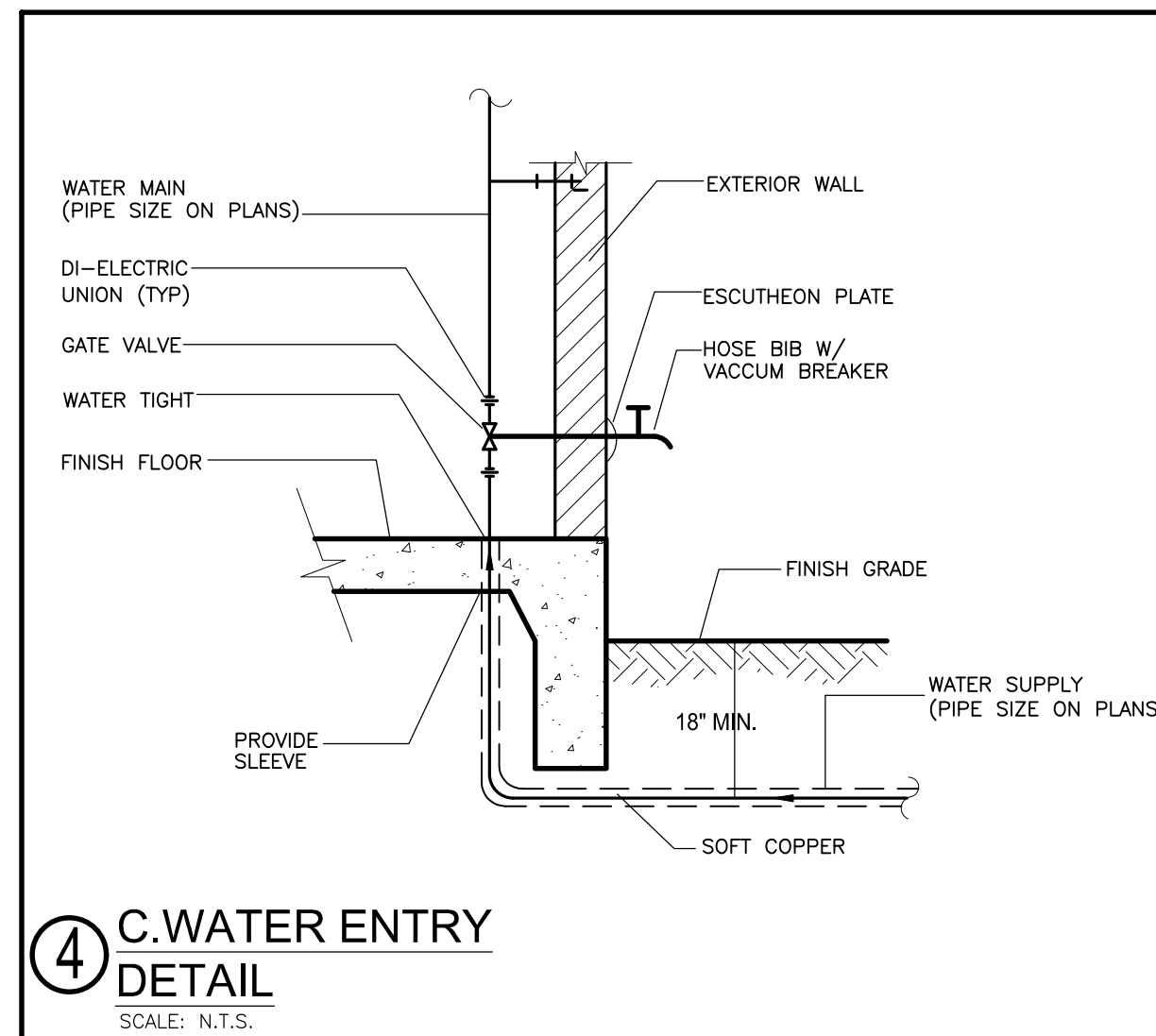
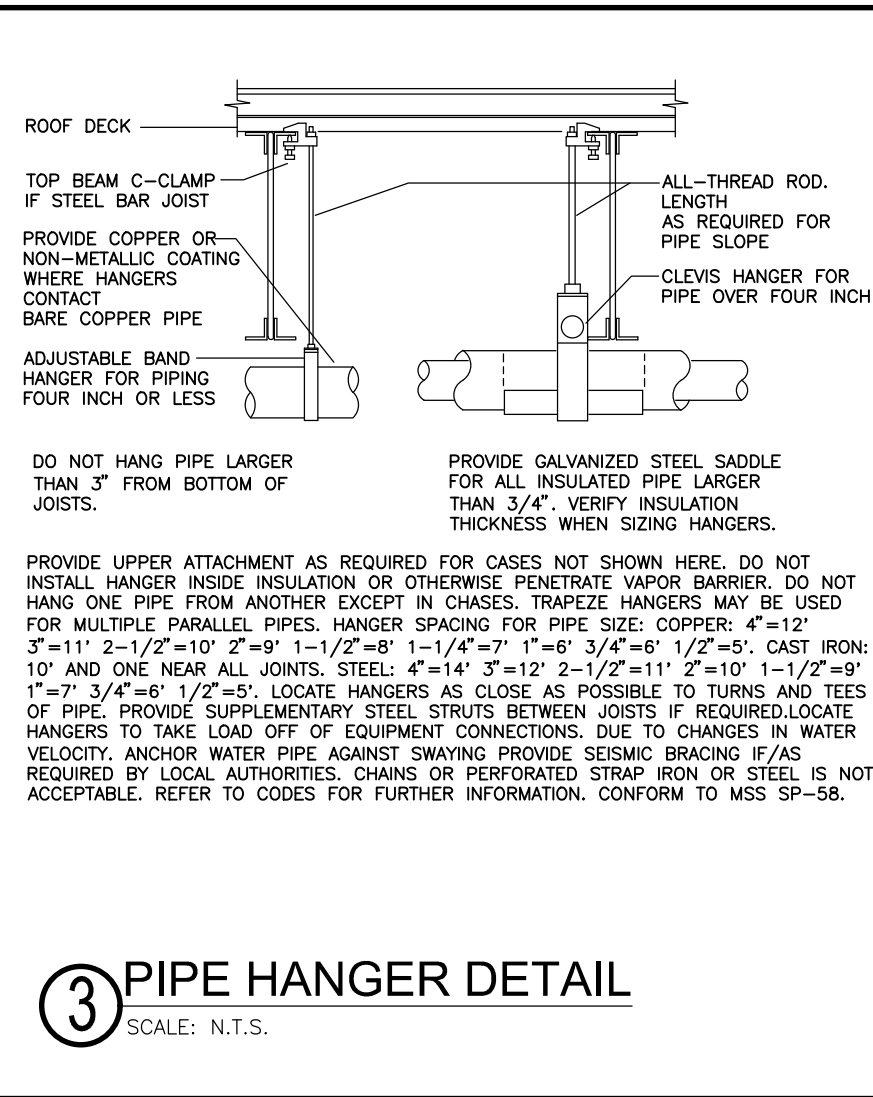
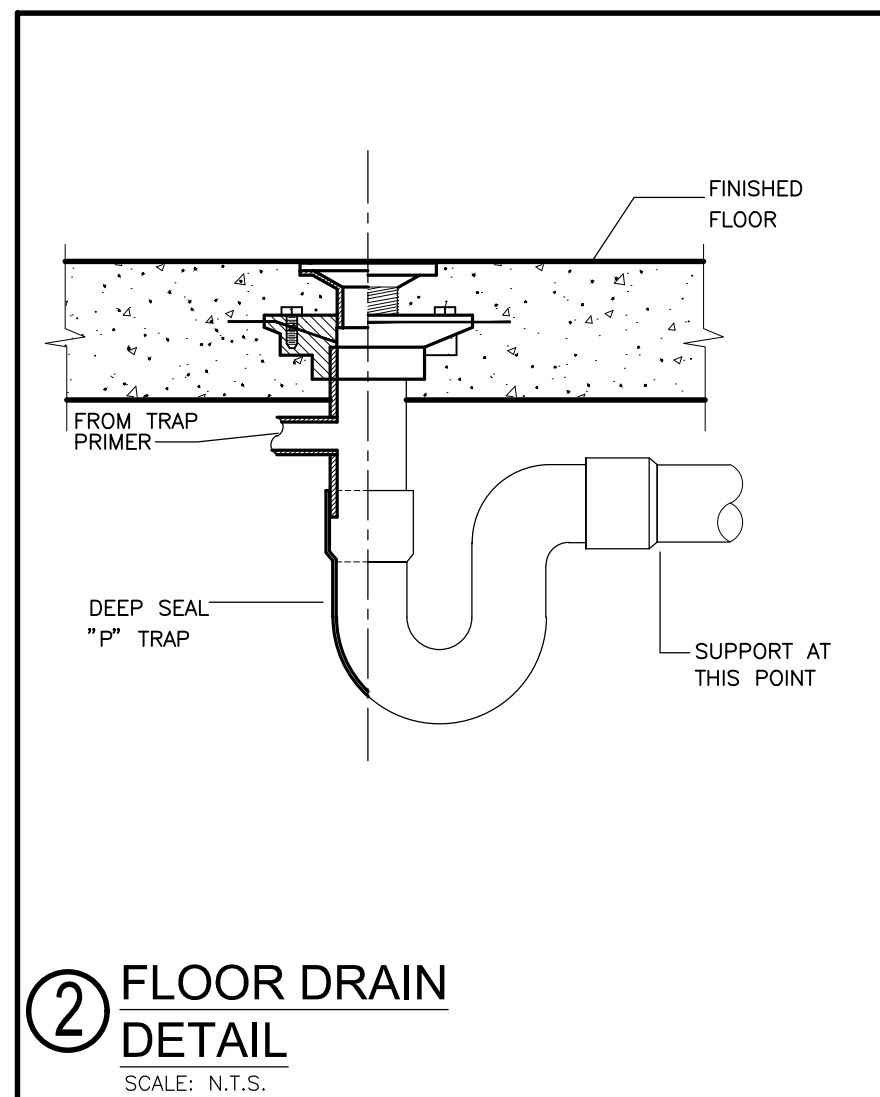
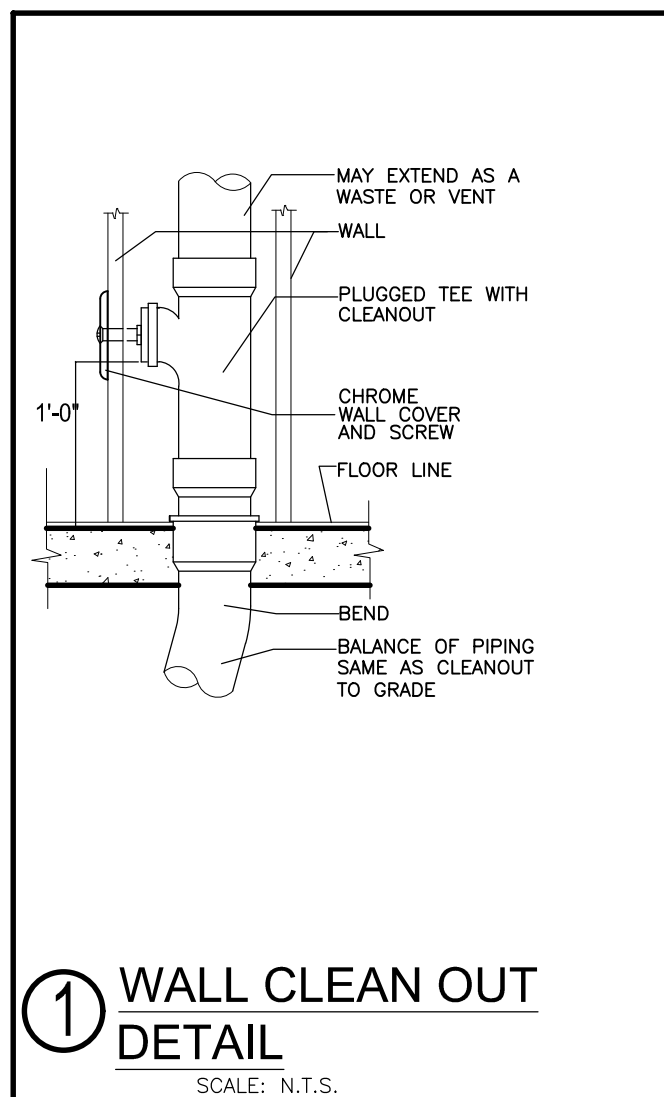
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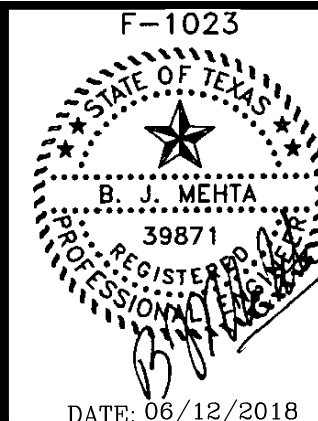
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## PLUMBING DETAILS

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SHEET NO.

# P5

FOOD MART : BAYSHORE



FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SONES
1	KEF-1	D08SHFA	2200	1.000	1474	1.000	0.6320	1	115	10.2	696 FPM	92	18.2

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
2	KMUA-1	A1-G10	G10D	A1	0	1760	0.600	970	1.000	0.6980	1	115	10.2	196	22

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	KEF-1	1 - Grease Box 1 - ECM Wiring Package-Exhaust - Manual or 0-10VDC Reference Speed Control (NIDEC Motor)
2	KMAU-1	1 - ECM Wiring Package-Supply - Manual or 0-10VDC Reference Speed Control (NIDEC Motor)

FAN UNIT NO.	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						
2	KMUA-1							

NO.	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	36 LBS	Curb	23.000"W x 23.000"L x 20.000"H Vented Hinged
2	# 2	KMUA-1	29 LBS	Curb	21.000"W x 21.000"L x 16.000"H

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	φ	H.P.	VOLT	FLA
1		SC-111110FP	Utility Cabinet Left	03 - Utility Cabinet Left	1 Light	Smart Controls Thermostatic Control	KEF-1	Exhaust	1	1.000	115	10.2
				Hood # 1	1 Fan		KMUA-1	Supply	1	1.000	115	10.2

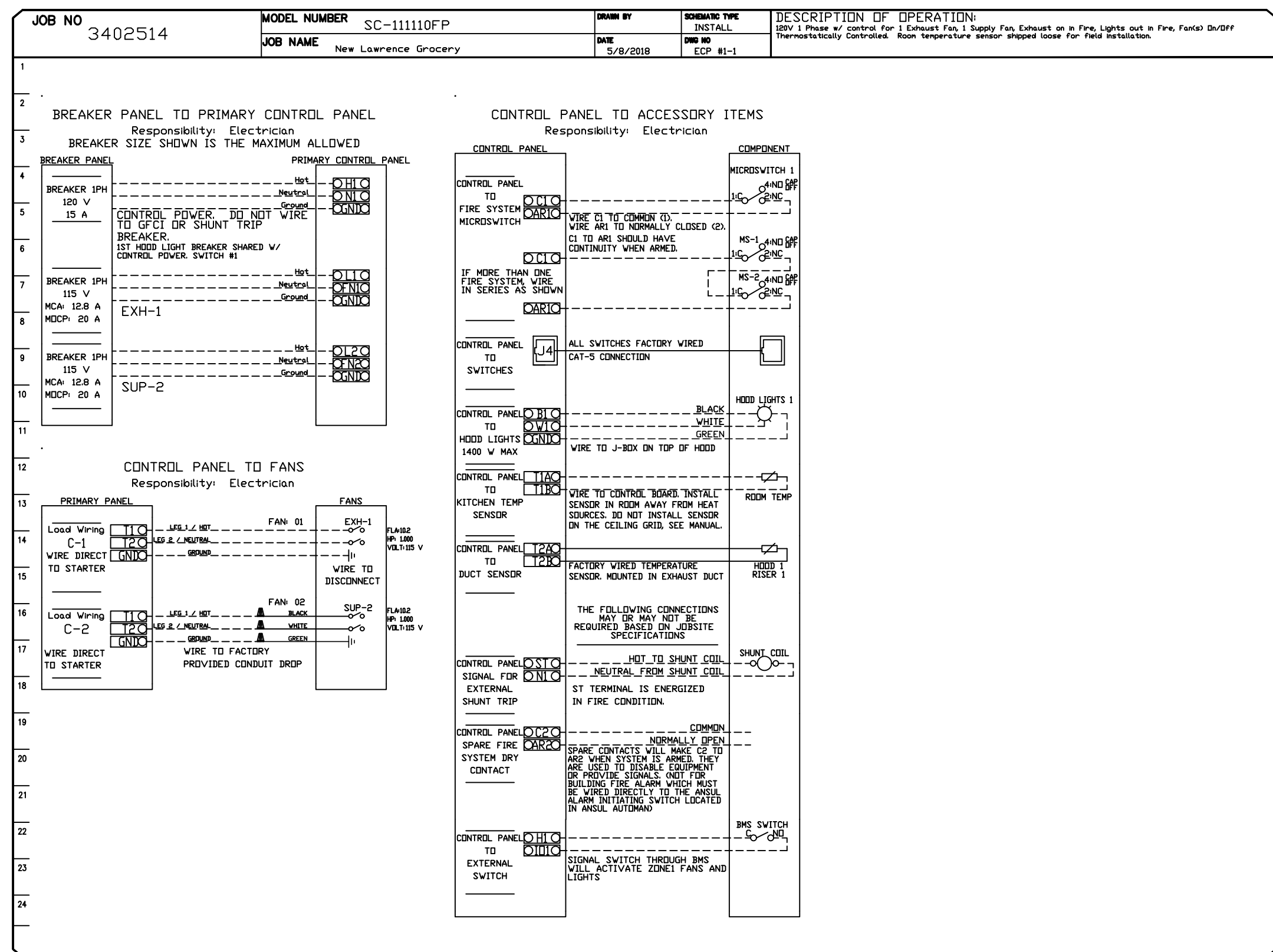


Diagram illustrating the internal components of the safe, showing the control panel and mounting points.

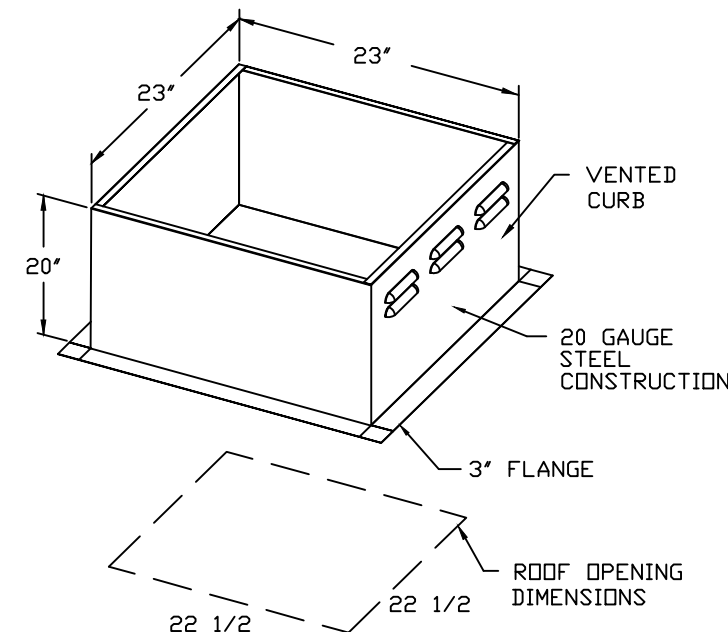
- ALARM INDICATING LCD SCREEN  
BUTTON FUNCTIONS VARY BY  
MODEL TYPE.
- GAT-3 CONNECTION ON REVERSE  
CONNECTED TO HEED CONTROL  
PANEL.
- MOUNTS IN STANDARD DOUBLE  
GANG JUNCTION BOX

Technical drawing of the rear view of the engine compartment. The drawing shows the engine block, exhaust riser, and fan assembly. Key dimensions and components are labeled:

- Overall width: 31 7/8
- Overall height: 30 1/2
- Grease Drain
- Exhaust Riser
- Fan
- Dimensions for the base and mounting points: 14 7/8, 22 1/2, 24 3/4
- Dimension for the mounting bracket: 1 2
- Label: DUCTWORK BETWEEN EXHAUST RISER ON HOOD AND FAN (BY OTHERS)


OPTIONS

GREASE BOX  
ECM WIRING PACKAGE-EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL  
(NIDEC MOTOR)

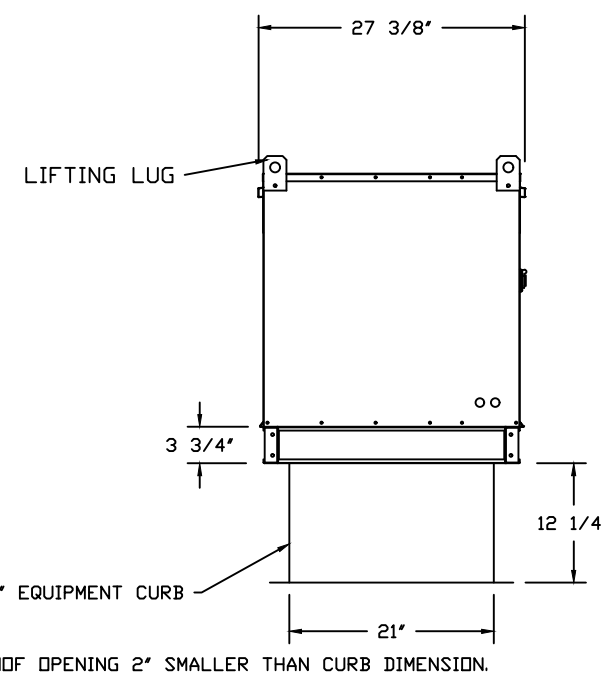
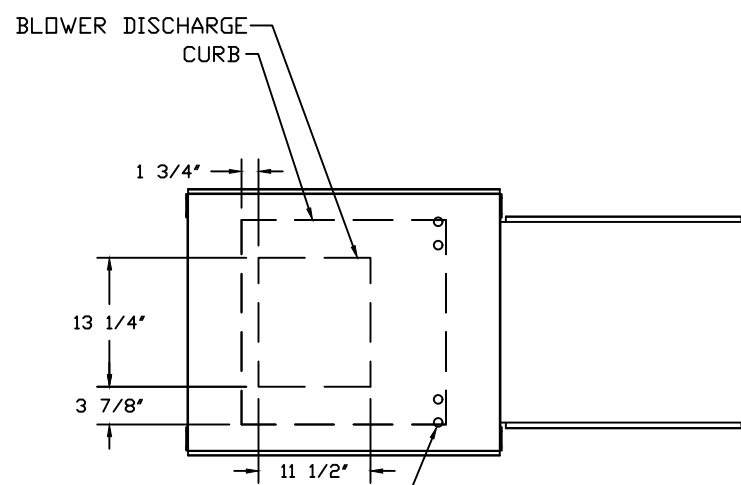
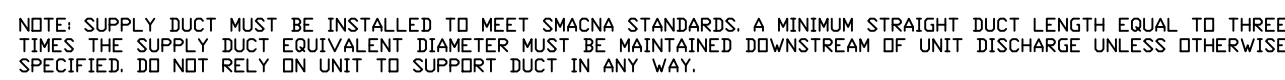


PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:  
EXAMPLE: 7/12 PITCH = 30° SLOPE




The diagram shows a right-angled triangle representing a curb cross-section. The horizontal base is labeled '12'' and the vertical height is labeled '0''. The angle between the base and the hypotenuse is labeled '30°'.

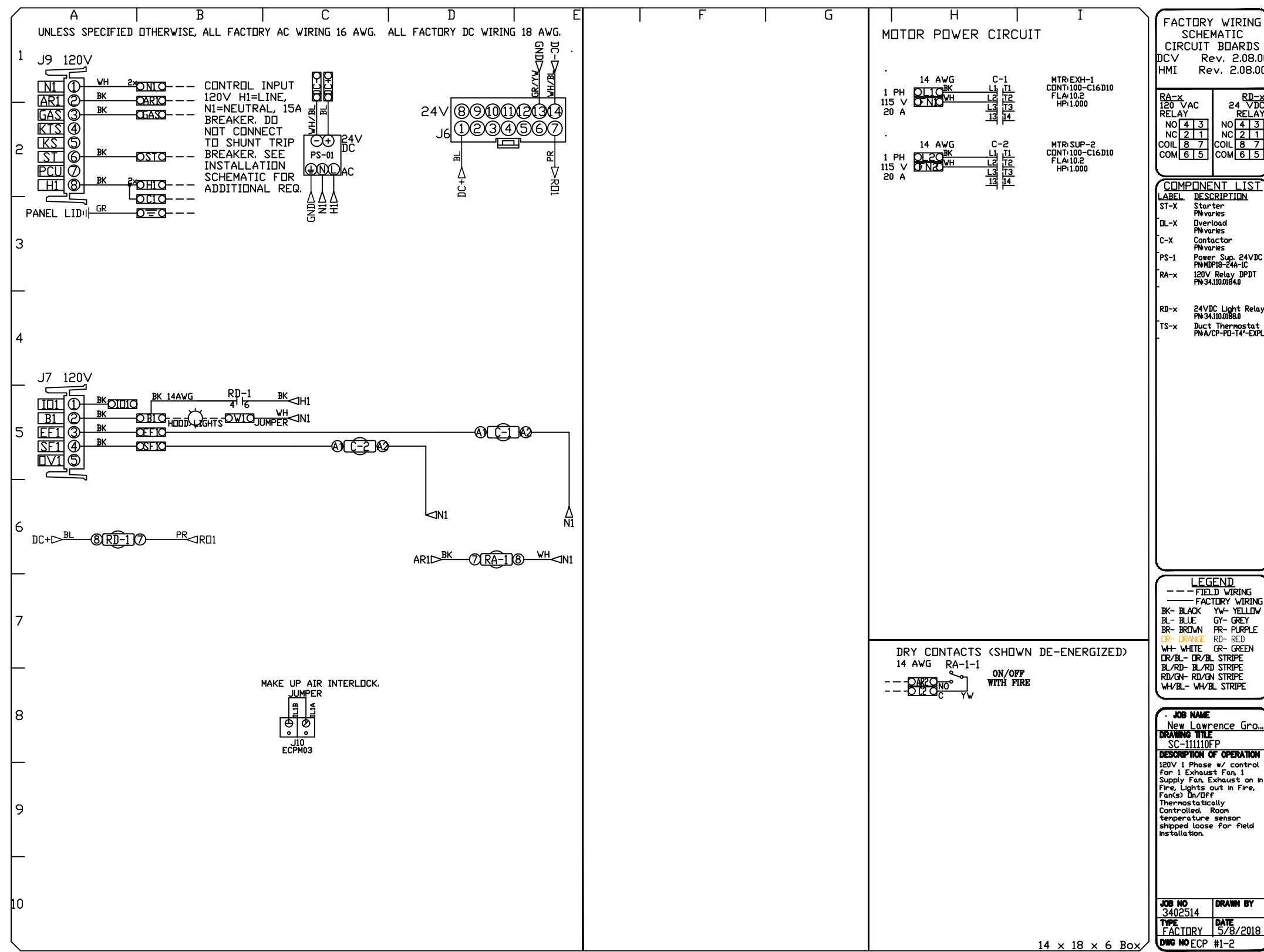
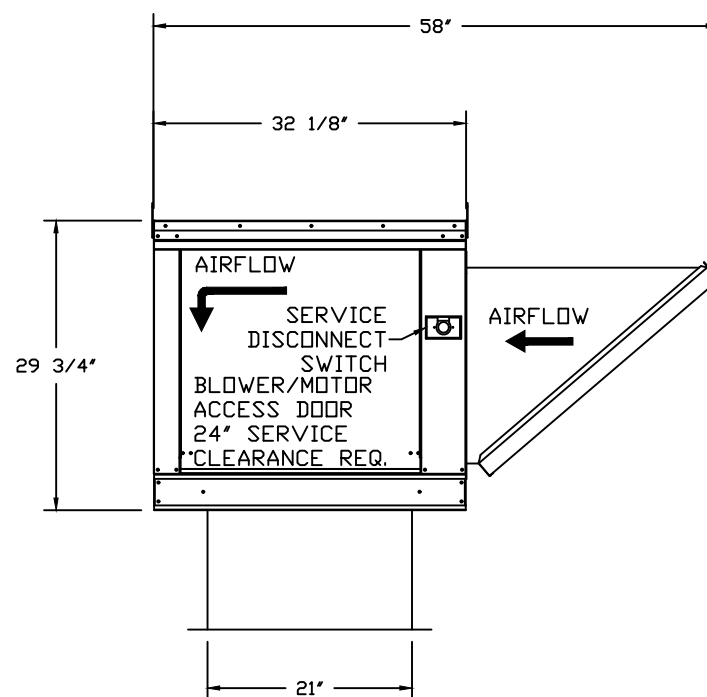


PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:  
EXAMPLE: 7/12 PITCH = 30° SLOPE



The diagram shows a right-angled triangle representing a curb cross-section. The horizontal base is labeled '12'' and the vertical height is labeled '0\".



HOOD INFORMATION - Job#3402514

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM RISER(S)								TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.	
					TOTAL EXH. CFM	WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.	S.P.			END TO	ROW
1		5424 ND-2-PSP-F	10' 0"	600 Deg.	2200			4'	14'	2200	2058	-0.646'	1760	430 SS Where Exposed	ALONE	ALONE

HOOD INFORMATION

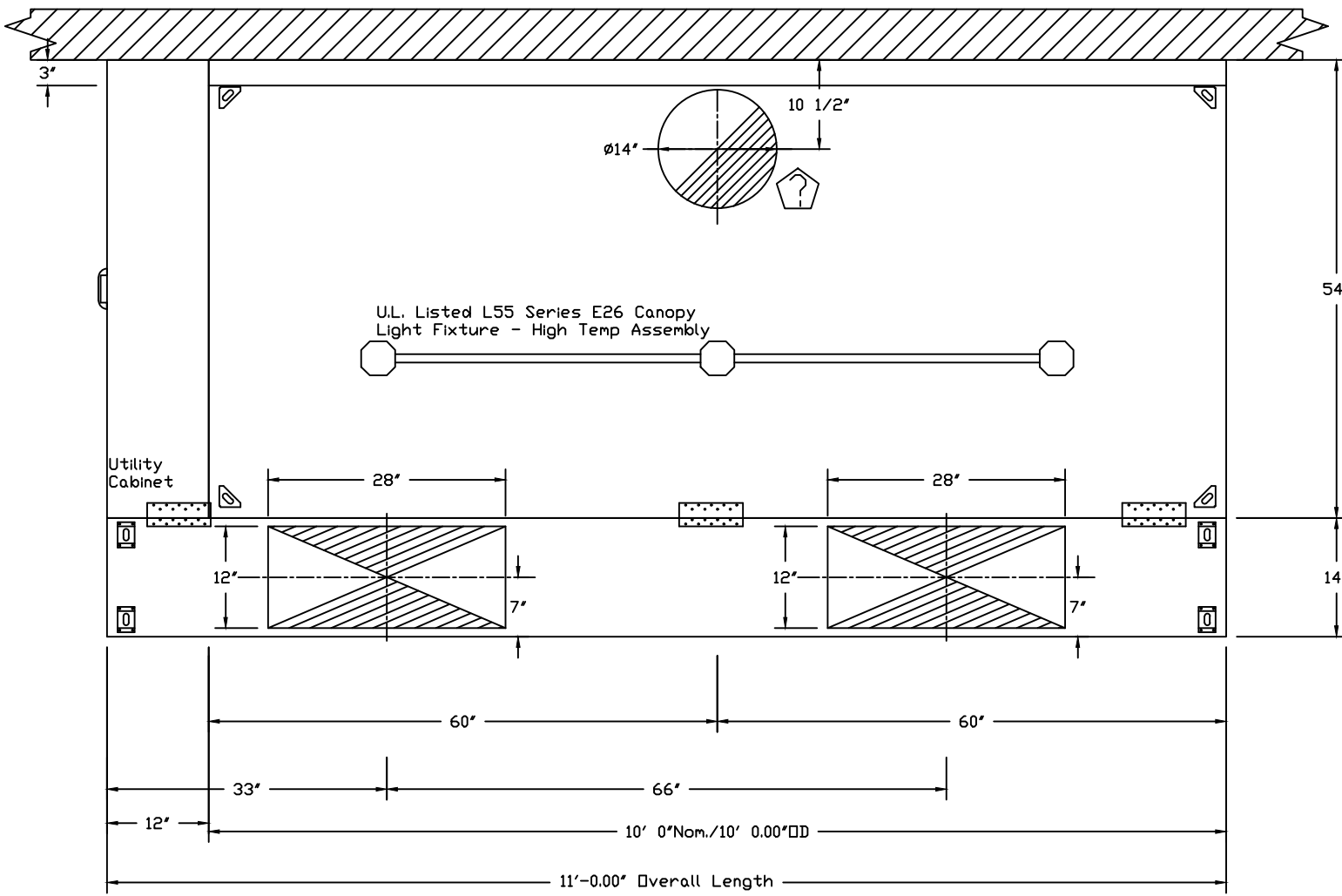
HOOD NO.	TAG	TYPE	QTY.	FILTER(S)		EFFICIENCY @ 7 MICRONS	QTY.	LIGHT(S)		WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT
				HEIGHT	LENGTH			TYPE	SYSTEM				ELECTRICAL	SWITCHES				
															TYPE	SIZE		
1		SS Baffle with Handles	7	16"	16"	30%	3	L55 Series E26	NO	Left	12"x54"x24"	Ansul R102	3.0	SC-111110FP	1 Light 1 Fan	YES	677 LBS	

HOOD OPTIONS

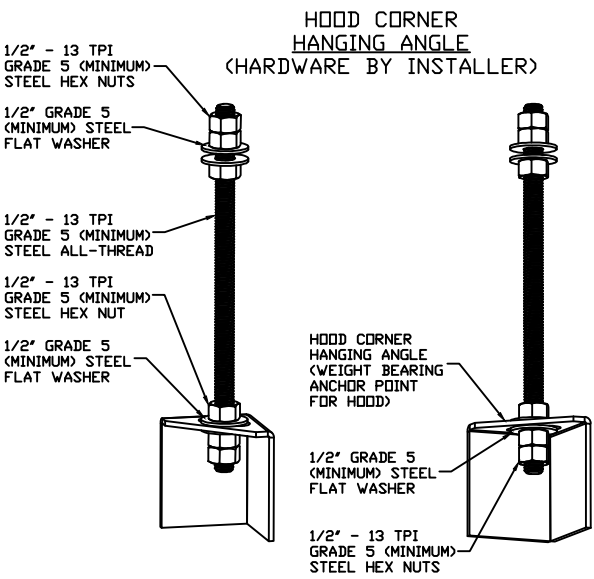
HOOD NO.	TAG	OPTION
1		FIELD WRAPPER 18.00" High Front, Left, Right BACKSPLASH 80.00" High X 132.00" Long 430 SS Vertical

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG.	DIA.	CFM	S.P.
1		Front	132'	14'	6'	MUA	12"	28"		879	0.227"
						MUA	12"	28"		879	0.227"

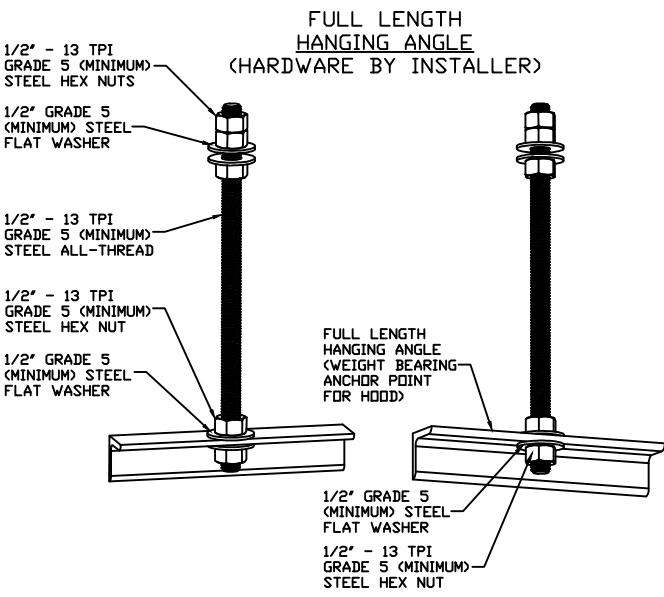


PLAN VIEW - Hood #1  
10' 0.00" LONG 5424ND-2-PSP-F



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



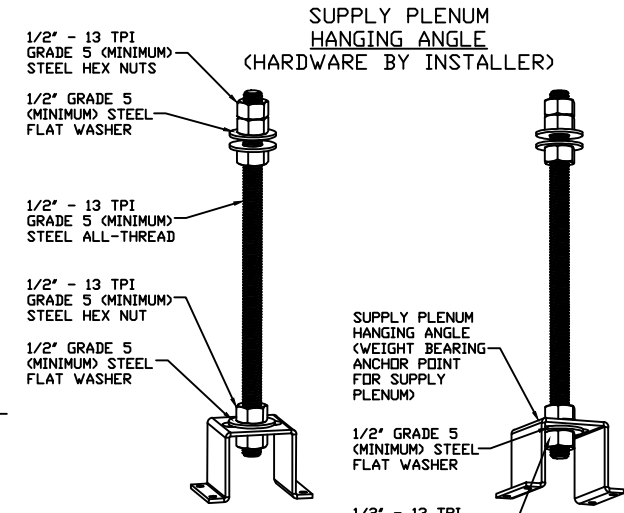
ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

FOR QUESTIONS, CALL  
KEYZO KNEZOVIC-FERNANDO JIMENEZ-BRANDON AYBEF  
EMAIL - reg46@captiveaire.com  
4501 CARTWRIGHT RD SUITE 601  
MISSOURI CITY, TX 77459  
PHONE: (866) 437-0700 FAX: 919-227-5962

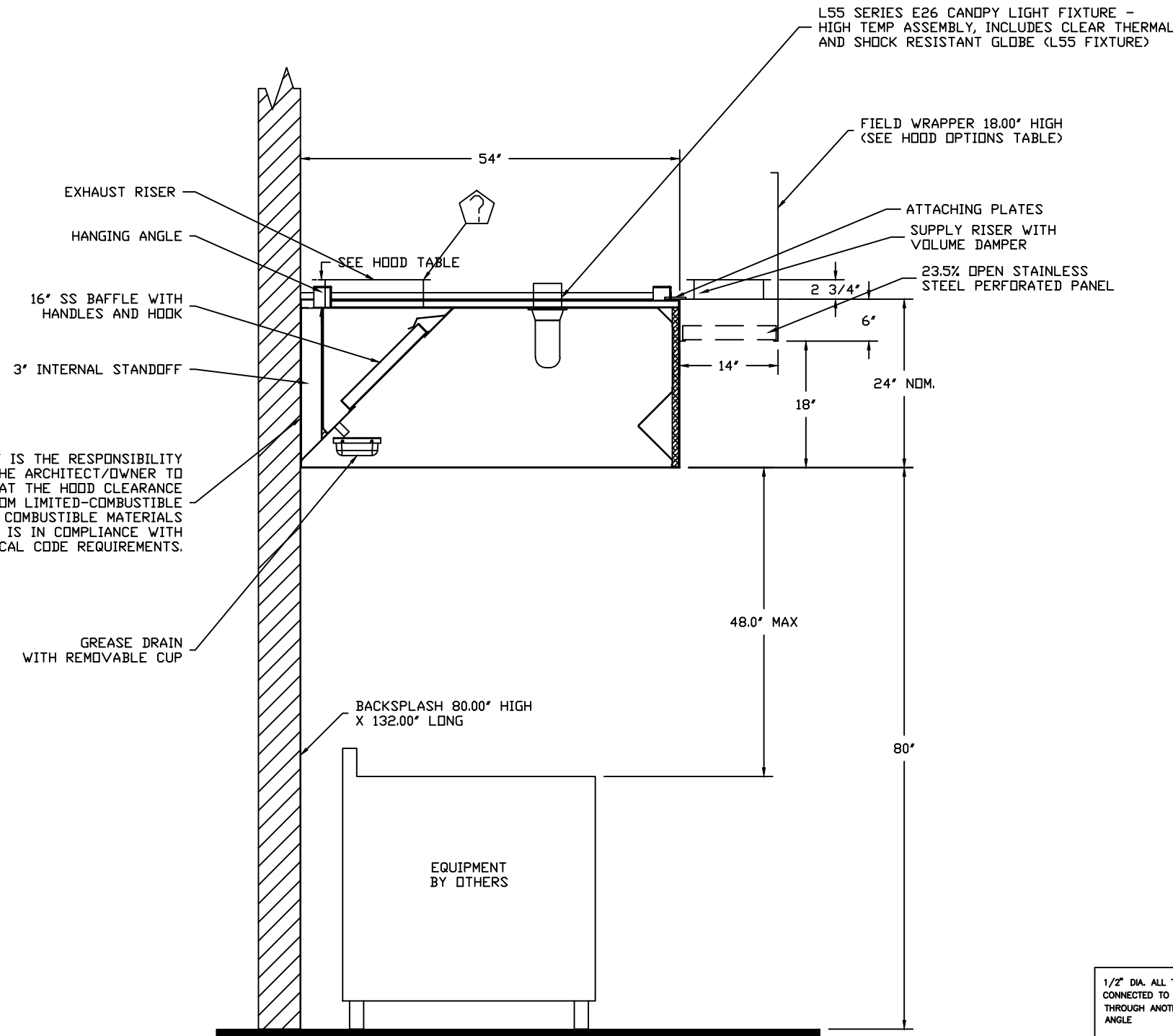
PATENT NUMBERS

AC-PSP (United States) - US Patent 7963830 B2  
AC-PSP Wall (Canada) - CA Patent 2820509  
AC-PSP Island (Canada) - CA Patent 2920330



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



SECTION VIEW - MODEL 5424ND-2-PSP-F  
HOOD - #1

SPECIFICATIONS

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/ LINKAGE ASSEMBLY.



GREASE DUCT & CHIMNEY SPECIFICATIONS:

PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE. PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

VERIFY CEILING HEIGHT

\_\_\_' - \_\_\_"

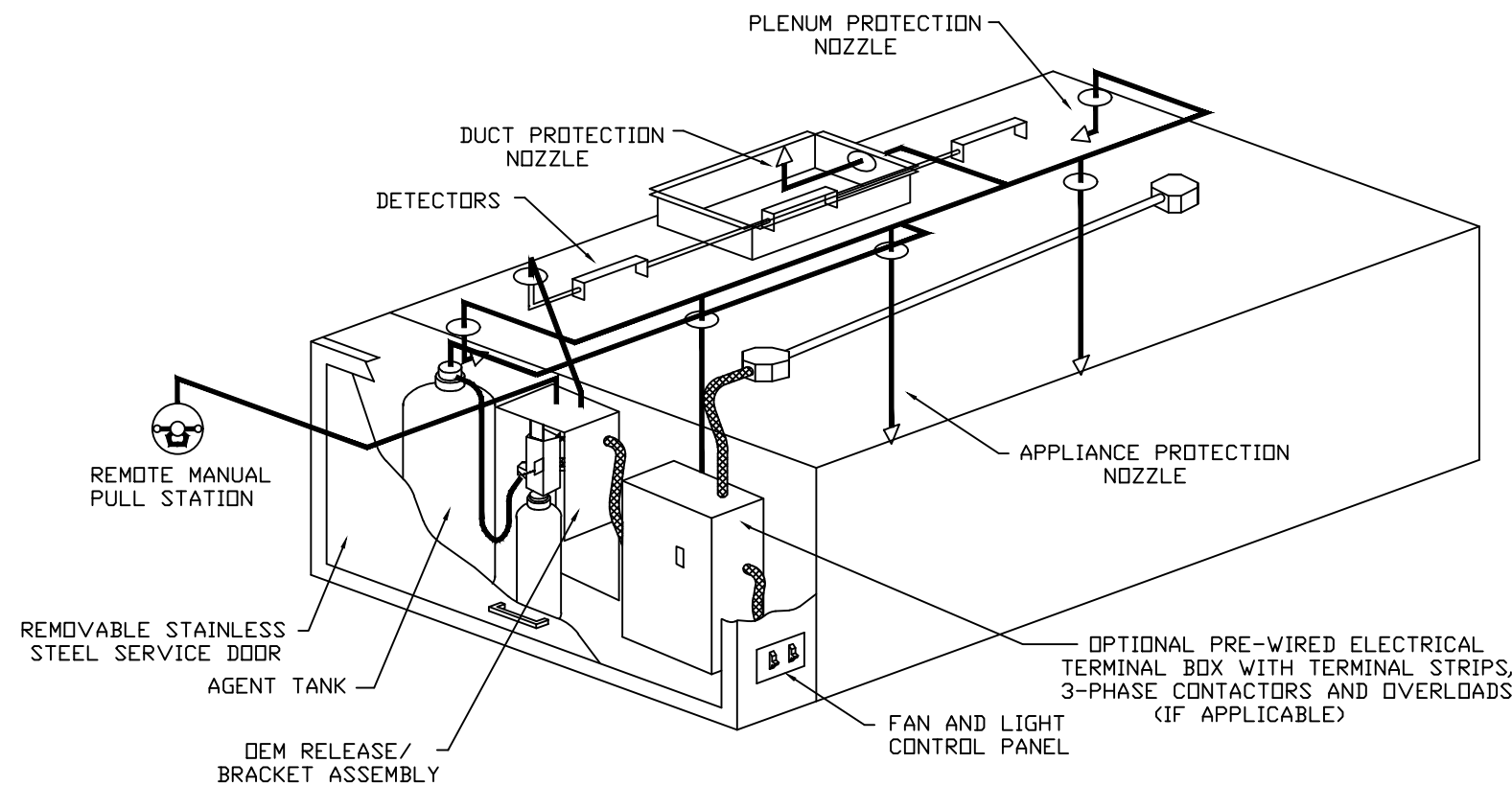
HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

Fire System Information - Job#3402514

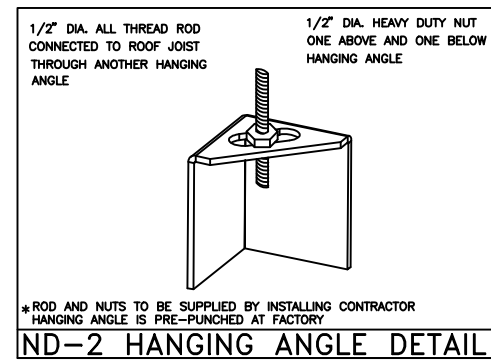
FIRE SYSTEM NO.	Tag	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		Ansul R102	3.0	2	Fire Cabinet Left	Left

GAS VALVE(S)

FIRE SYSTEM NO.	TAG	TYPE	SIZE	SUPPLIED BY
1		Mechanical	2.000	Distributor



TYPICAL ANSUL R-102 SYSTEM LAYOUT



CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH  
NSF  
UL 710 & ULC710 STANDARDS  
E.T.L. LISTED 3054804-001

ETL LISTING DESCRIPTION BLOCK

THE CAPTIVE AIRE MODEL ND HAS BEEN E.T.L TESTED, LISTED, AND APPROVED TO EXHAUST A MINIMUM OF 150/200/250 CFM PER LINEAR FOOT OVER 450/600/700 DEGREE COOKING EQUIPMENT

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		
4		

CAPTIVEAIRE

Houston Office

4501 Cartwright Rd., Suite 601, Missouri City, TX 77459 PHONE: (919) 576-2585 FAX: (919) 227-5962 EMAIL: reg46@captiveaire.com

New Lawrence Grocery

902 E. Bayshore,  
DICKINSON, TX, 77539

DATE: 5/8/2018

DWG.#:  
3402514

DRAWN BY: Keyzo-46

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

MASTER DRAWING

SHEET NO.  
1