

Civil Engineers & Land Surveyors

55800 GRAND RIVER AVE., SUITE 100

NEW HUDSON, MICHIGAN 48165

P: (248) 437-5099 F: (248) 437-5222 www.zeimetwozniak.com

REVISIONS

7/19/11 SRB

PER CITY REVIEW

DATE BY

REVISIONS

DATE BY

REVISIONS

DATE 4/25/11 SCALE HOR: 1" = 40' VER: 1" = N/A DESIGNED BY JOB NO. 11108 SRB

SOIL EROSION CONTROL PLAN TIM HORTON'S ROCHESTER HILLS, MICHIGAN

PROJECT SPONSOR:

BRIGHTON, MI 48116

TIM HORTON'S USA, INC.

565 EAST GRAND RIVER, SUITE 101

(810) 844-2747

THREE FULL

WORKING DAYS

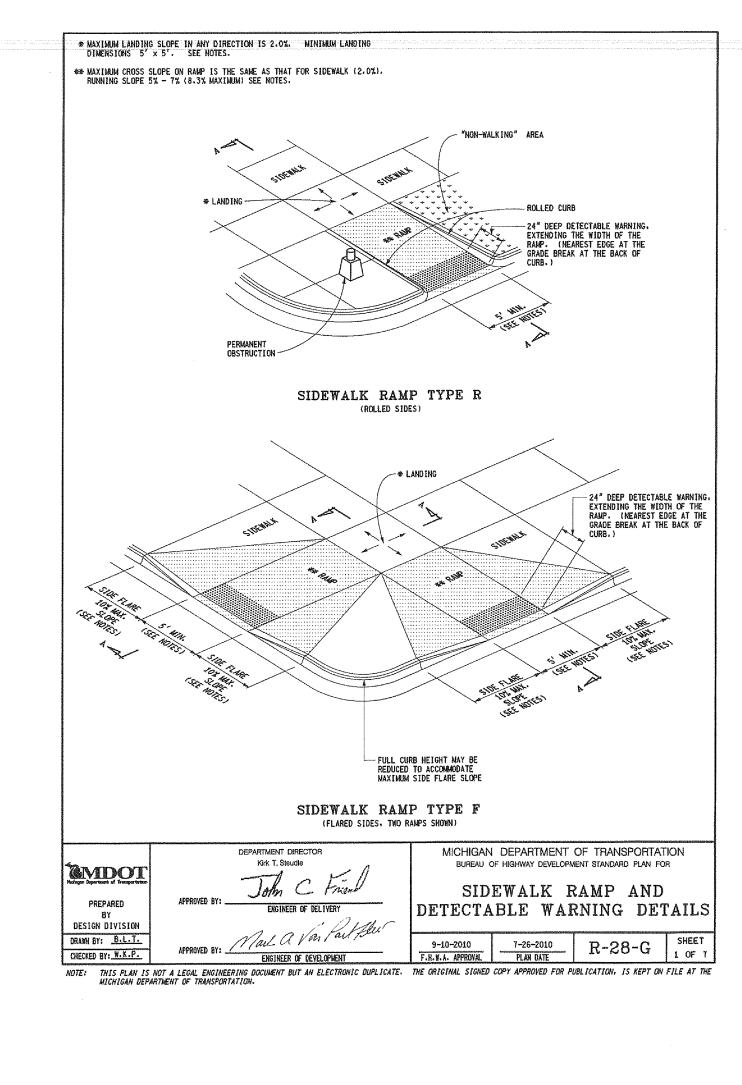
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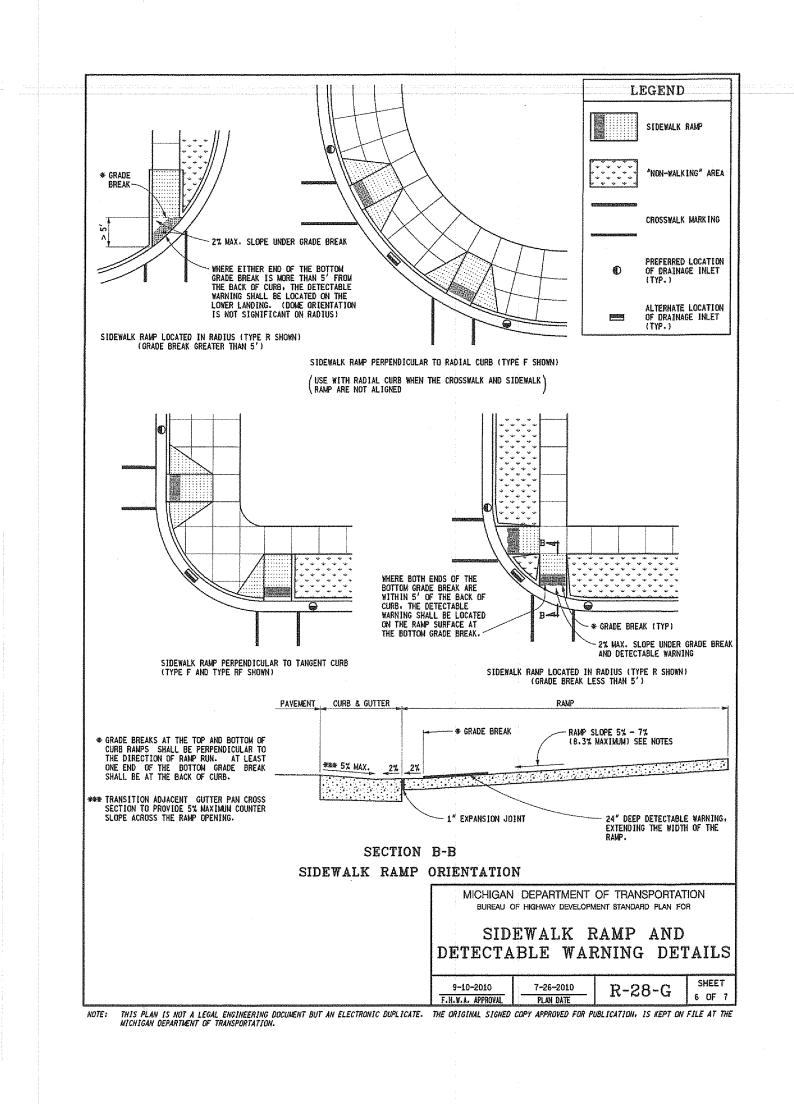
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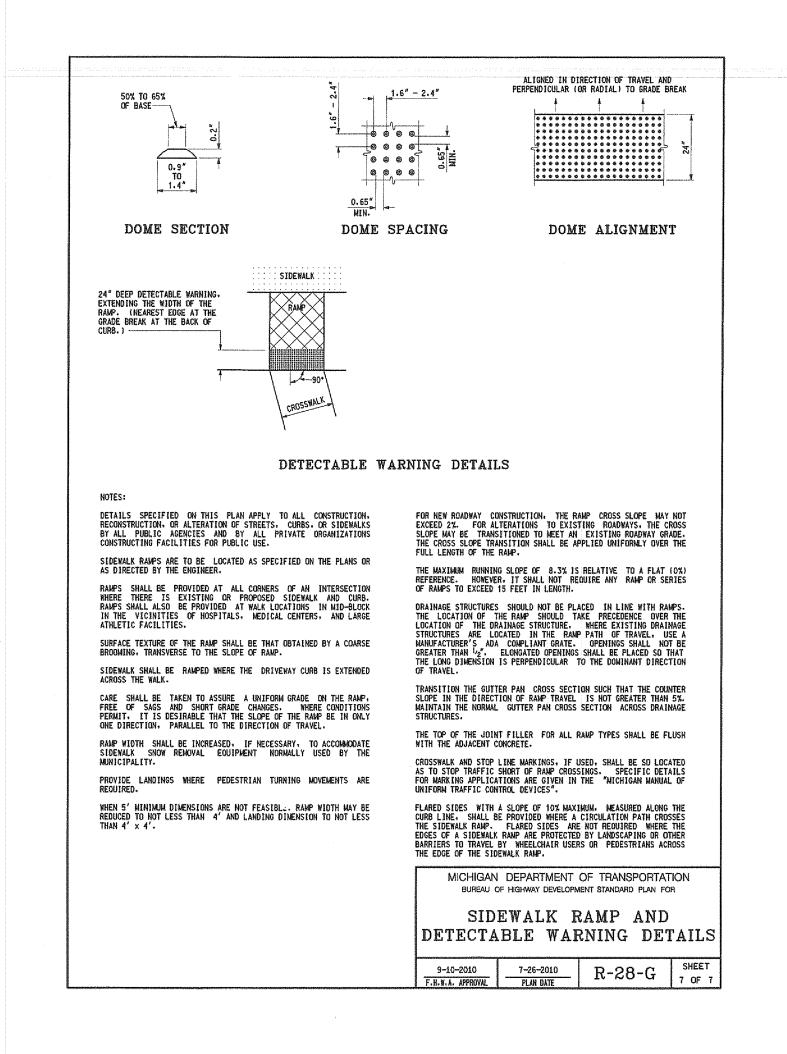
MISS DIGSYSTEM, INC. CALL THE MISS

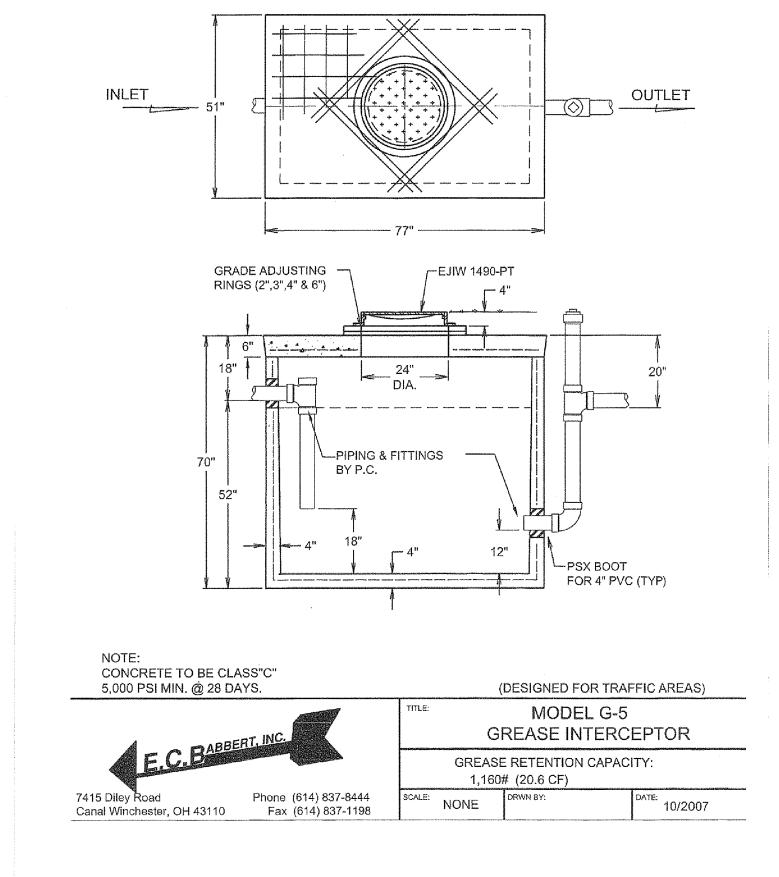
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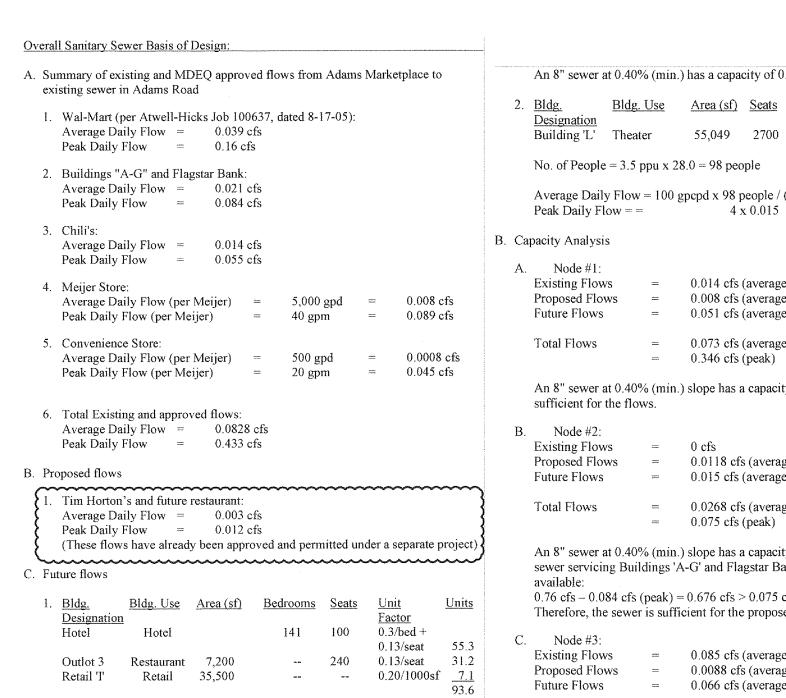
DRAWN BY SHEET SP-5 SRB





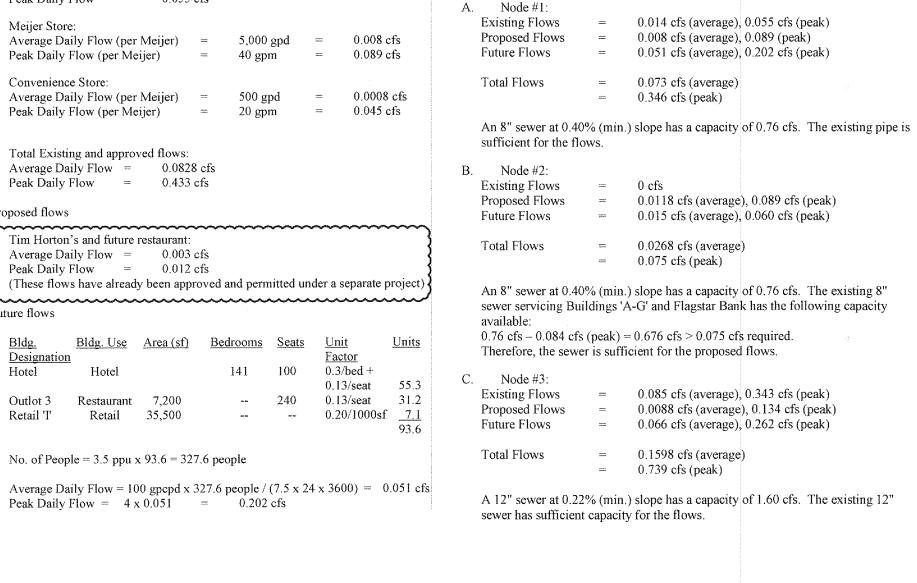






No. of People = 3.5 ppu x 93.6 = 327.6 people

Peak Daily Flow = 4×0.051 = 0.202 cfs



An 8" sewer at 0.40% (min.) has a capacity of 0.76 cfs

No. of People = 3.5 ppu x 28.0 = 98 people

Building 'L' Theater

Peak Daily Flow ==

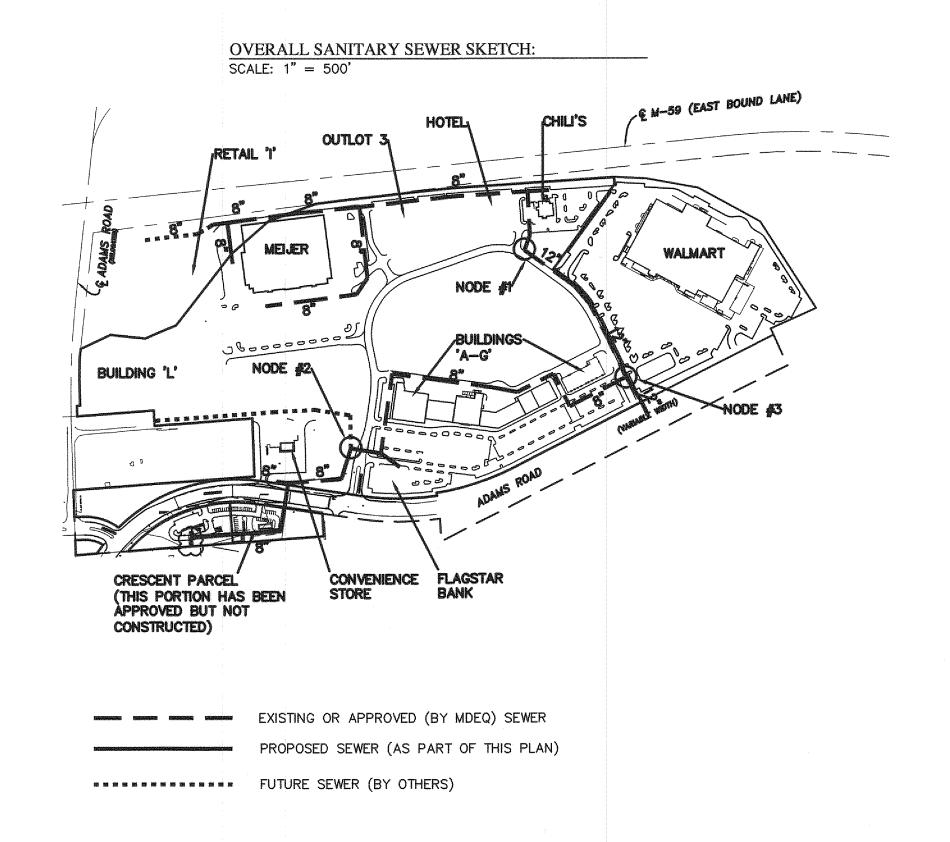
55,049 2700

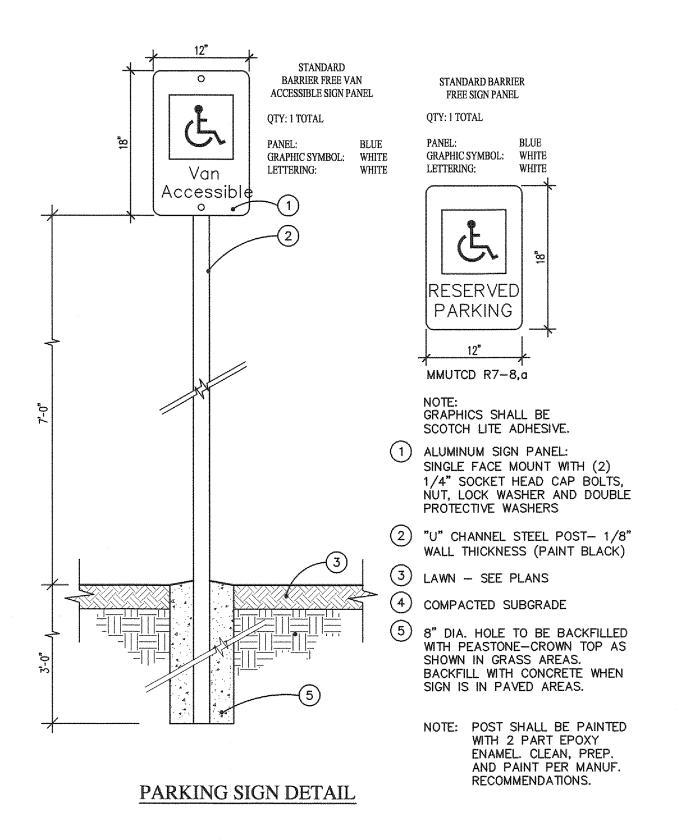
Average Daily Flow = 100 gpcpd x 98 people / (7.5 x 24 x 3600) = 0.015 cfs

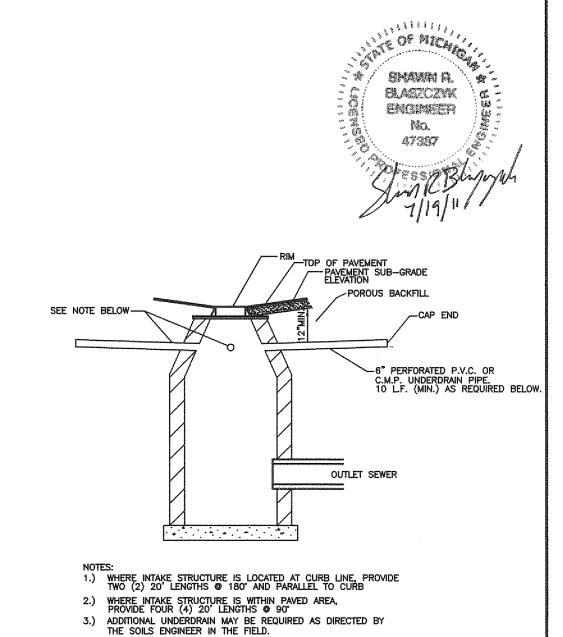
 4×0.015

1.0 + 0.01/seat 28.0

= 0.060 cfs





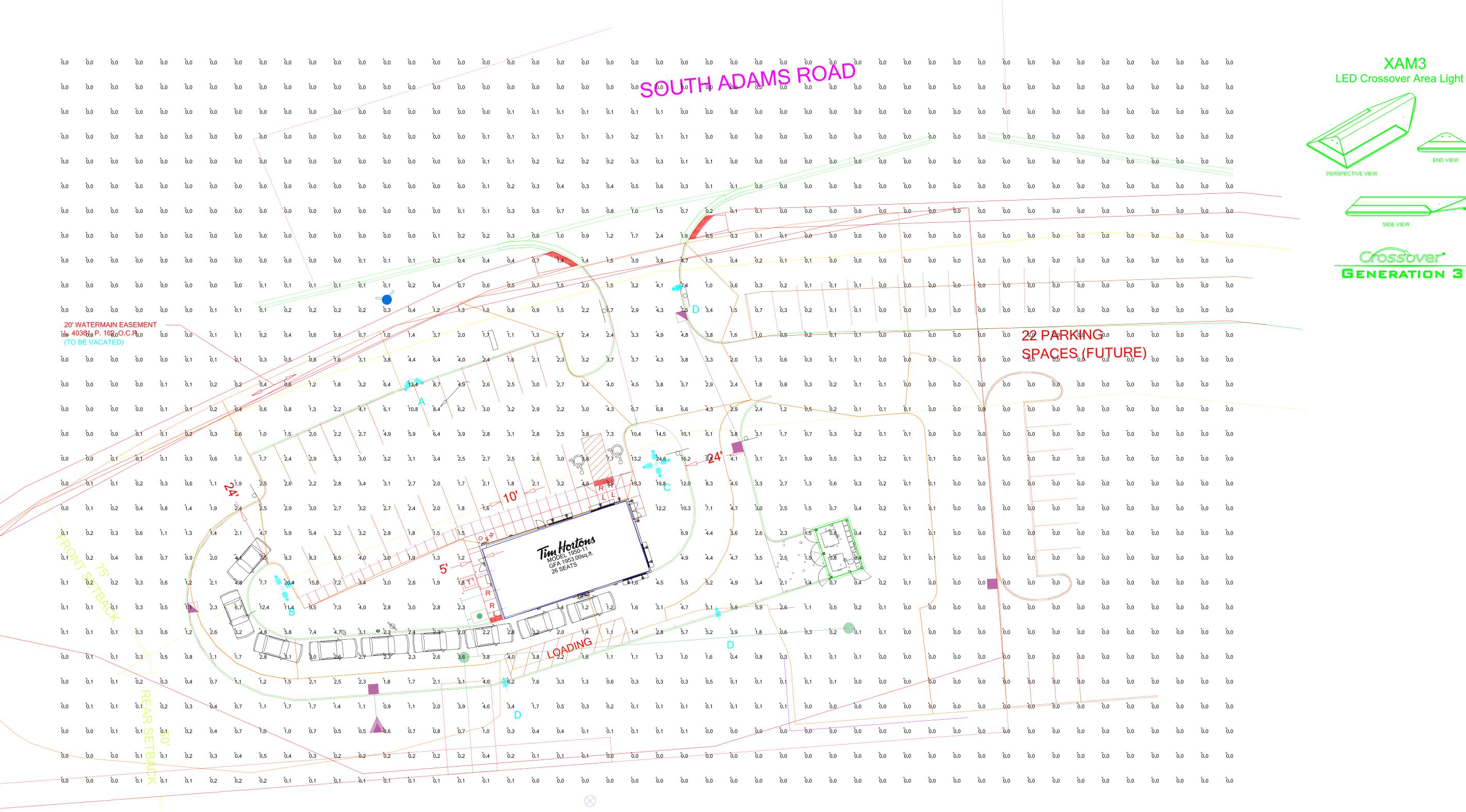


TYPICAL UNDERDRAIN DETAIL

NO SCALE

NOT FOR CONSTRUCTION CITY FILE NO. 11-002

REVISIONS PER CITY REVIEW	DATE BY	REVISIONS	DATE BY	REVISIONS	DATE BY	REVISIONS	DATE BY	7 EIMET W ◆ZNIAK	THREE FULL WORKING DAYS	PROJECT SPONSOR:	MISCELLANEOUS DETAILS	DATE 4/25/11 SCALE HOR: 1" = N/A 50 50 50 50 50 50 50 50 50 50 50 50 50
PER OITS REVIEW	7/19/11 310							Civil Engineers & Land Surveyors	MISS DIGSYSTEM INC. BEFORE YOU DIG,	TIM HORTON'S USA, INC. 565 FAST GRAND RIVER, SUITE 101	TIM HORTON'S	B DESIGNED BY JOB NO. 11108
				The state of the s			:	55800 GRAND RIVER AVE., SUITE 100 NEW HUDSON, MICHIGAN 48165 P: (248) 437-5099 F: (248) 437-5222 www.zeimetwozniak.com	1-800-482-7171 DIG SYSTEM	BRIGHTON, MI 48116 (810) 844-2747	ROCHESTER HILLS, MICHIGAN	DRAWN BY SHEET SP-6



Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
ALL CALC POINTS	Illuminance	Fc	0.97	24.6	0.0	N.A.	N.A.	
PARKING SUMMARY	Illuminance	Fc	4.42	24.6	1.1	4.02	22.36	

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Description	LLF	Lumens/Lamp	Arr. Lum. Lumens	Arr. Watts
-	1	В	3 @ 90 DEGREES	XAM3-FT-LED-119-450-CW-UE T90 ON 20' 'POLE	1.000	N.A.	37029	552
₹	1	A	2 @ 90 DEGREES	XAM3-FT-LED-119-450-CW-UE D90 ON 20' 'POLE	1.000	N.A.	24686	368
←	1	С	4 @ 90 DEGREES	XAM3-FT-LED-119-450-CW-UE Q90 ON 20' 'POLE	1.000	N.A.	49372	736
	3	D	SINGLE	XAM3-FT-LED-119-450-CW-UE SINGLE ON 20' 'POLE	1.000	N.A.	12343	184

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine applicability of the layout to existing or future field conditions.

This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions utilizing current industry standard lamp ratings in accordance with Illuminating Engineering Society approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted.

Total Project Watts Total Watts = 2208

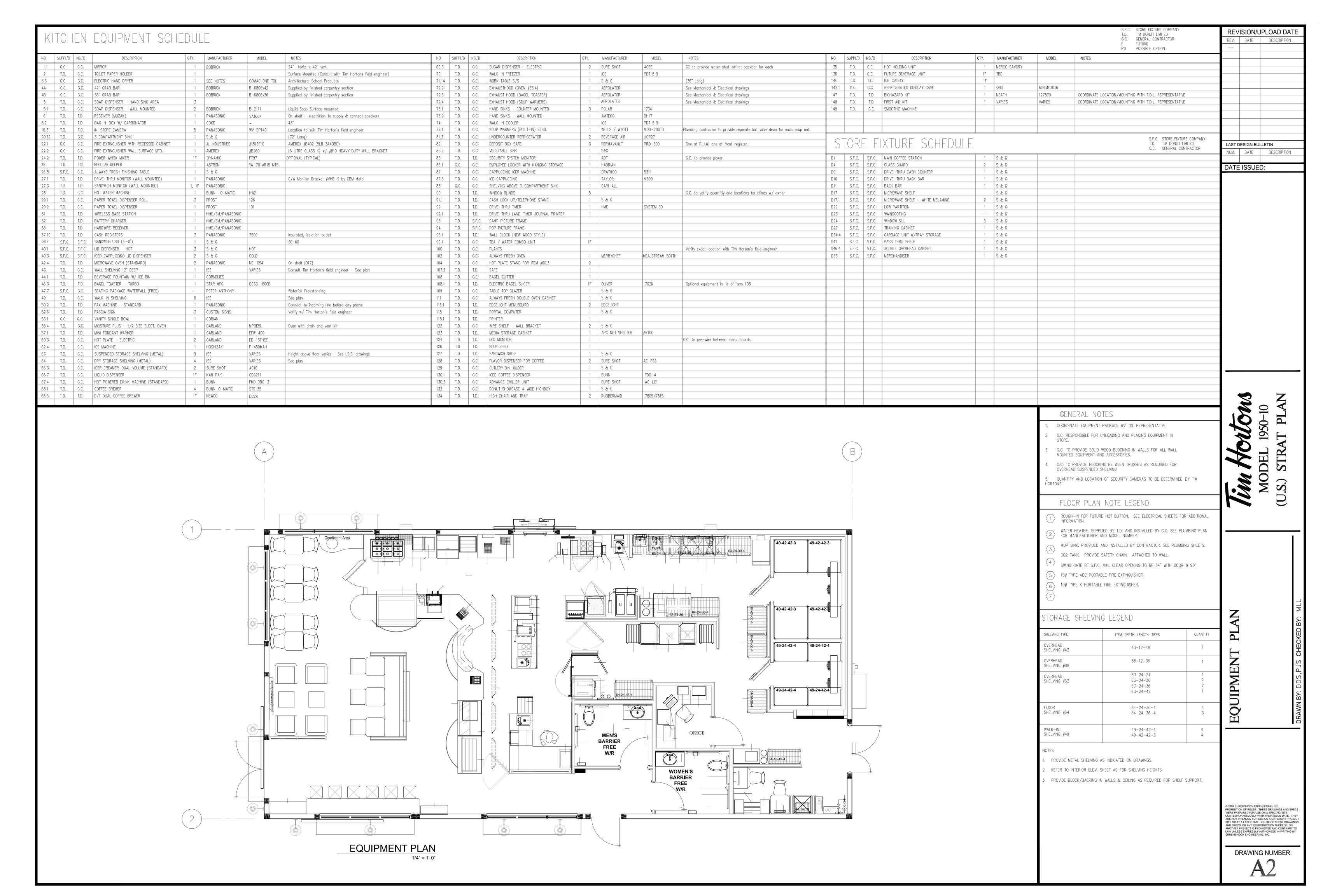
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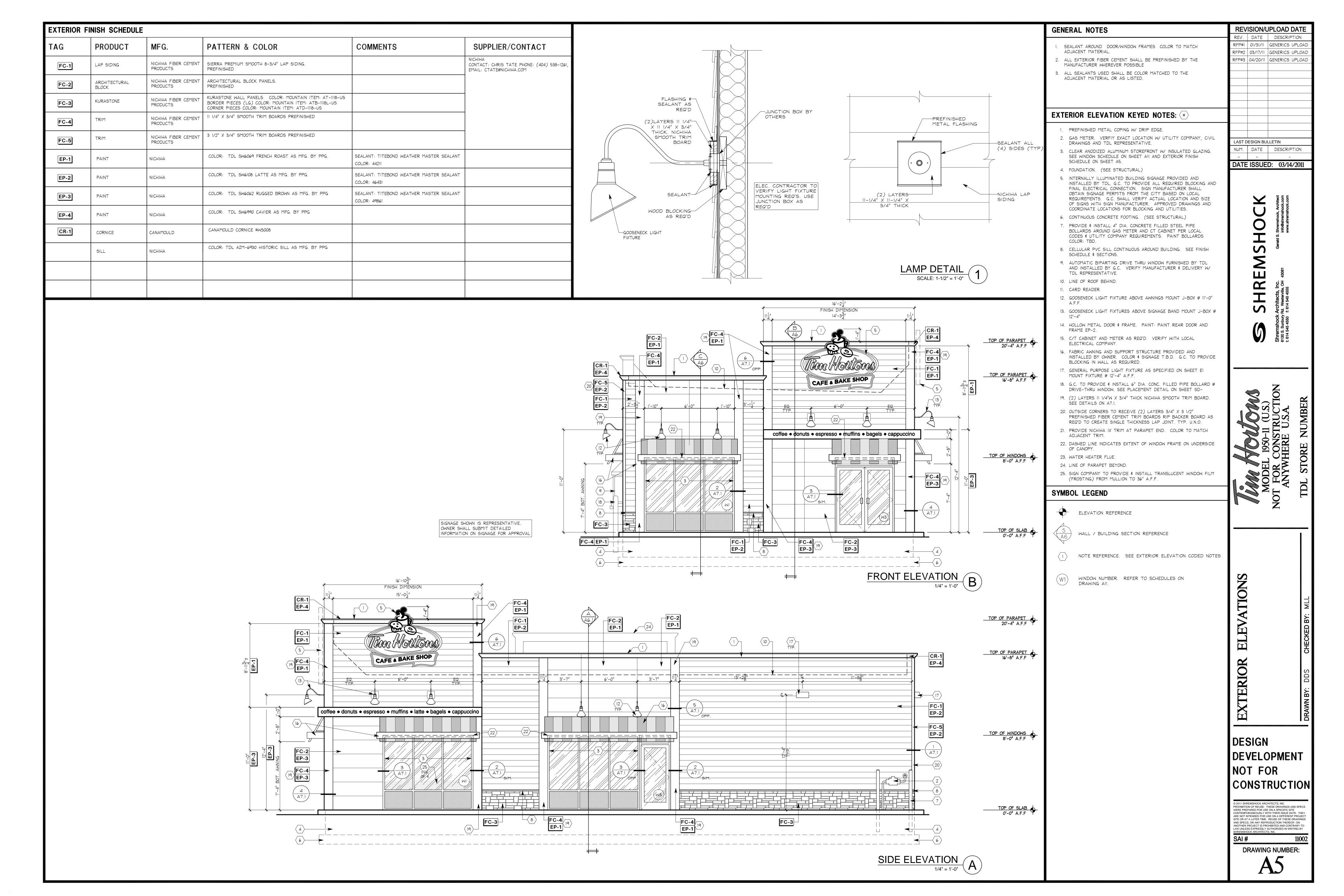
XAM3

GENERATION 3

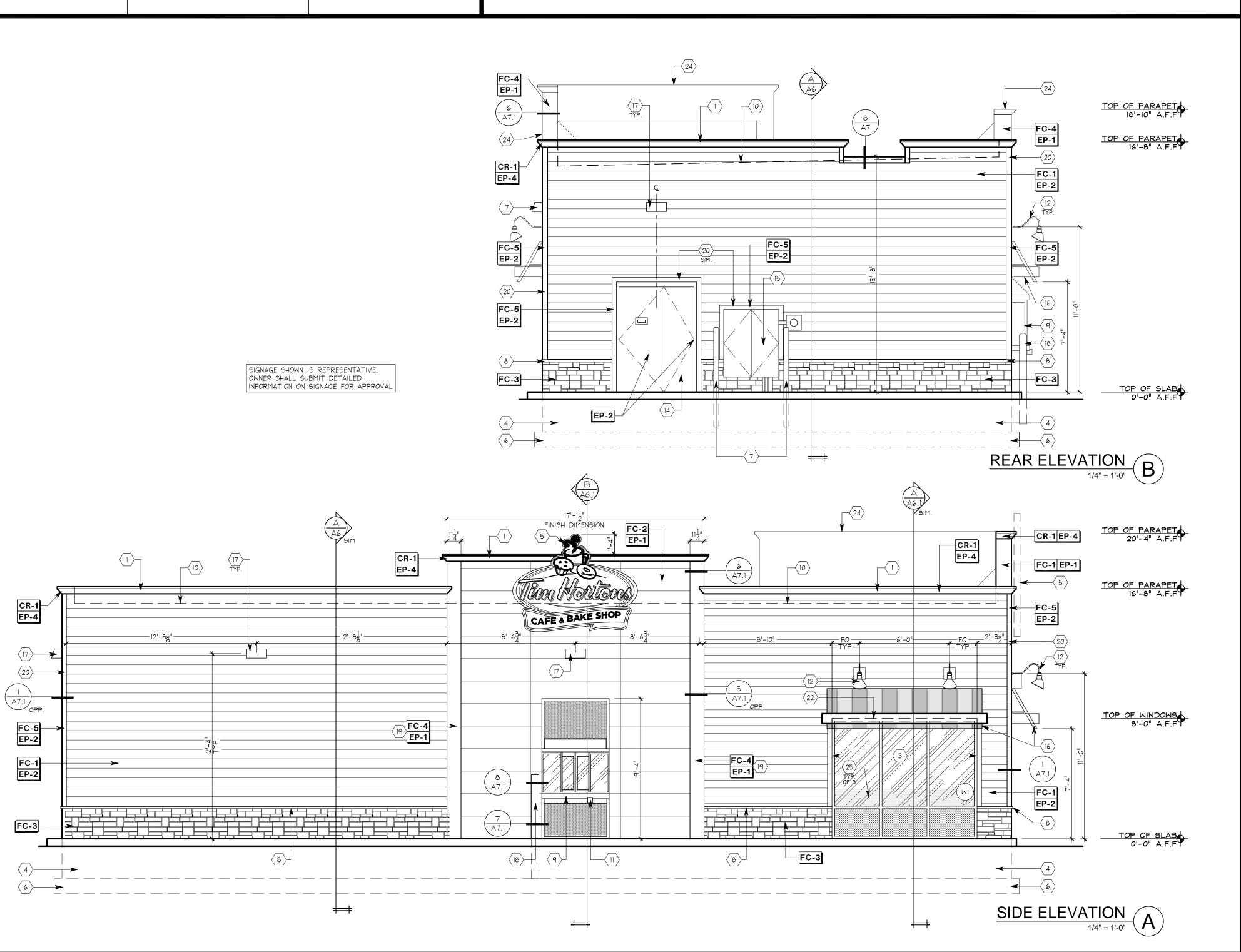


BRIGHTON HILLS, MI 20Ft — SCALE:1"=20' LO- 106156-1 DATE: 7/17/11 SHEET 1 OF 1





TAG	PRODUCT	MFG.	PATTERN & COLOR	COMMENTS	SUPPLIER/CONTACT
FC-1	LAP SIDING	NICHIHA FIBER CEMENT PRODUCTS	SIERRA PREMIUM SMOOTH 8-3/4" LAP SIDING. PREFINISHED		NICHIHA CONTACT: CHRIS TATE PHONE: (404) 538-1261, EMAIL: CTATE@NICHIHA.COM
FC-2	ARCHITECTURAL BLOCK	NICHIHA FIBER CEMENT PRODUCTS	ARCHITECTURAL BLOCK PANELS. PREFINISHED		
FC-3	KURASTONE	NICHIHA FIBER CEMENT PRODUCTS	KURASTONE WALL PANELS. COLOR: MOUNTAIN ITEM: AT-1118-US BORDER PIECES (LG) COLOR: MOUNTAIN ITEM: ATB-1118L-US CORNER PIECES COLOR: MOUNTAIN ITEM: ATD-1118-US		
FC-4	TRIM	NICHIHA FIBER CEMENT PRODUCTS	11 1/4" X 3/4" SMOOTH TRIM BOARDS PREFINISHED		
FC-5	TRIM	NICHIHA FIBER CEMENT PRODUCTS	3 1/2" X 3/4" SMOOTH TRIM BOARDS PREFINISHED		
EP-1	PAINT	NICHIHA	COLOR: TDL SW6069 FRENCH ROAST AS MFG. BY PPG	SEALANT: TITEBOND WEATHER MASTER SEALANT COLOR: 44211	
EP-2	PAINT	NICHIHA	COLOR: TDL SW6108 LATTE AS MFG. BY PPG	SEALANT: TITEBOND WEATHER MASTER SEALANT COLOR: 46431	
EP-3	PAINT	NICHIHA	COLOR: TDL SM6062 RUGGED BROWN AS MFG. BY PPG	SEALANT: TITEBOND WEATHER MASTER SEALANT COLOR: 49861	
EP-4	PAINT	NICHIHA	COLOR: TDL SW6990 CAVIER AS MFG. BY PPG		
CR-1	CORNICE	CANAMOULD	CANAMOULD CORNICE #WS008		
	SILL	NICHIHA	COLOR: TDL AZM-6930 HISTORIC SILL AS MFG. BY PPG		



GENERAL NOTES

- SEALANT AROUND DOOR/WINDOW FRAMES COLOR TO MATCH ADJACENT MATERIAL.
- 2. ALL EXTERIOR FIBER CEMENT SHALL BE PREFINISHED BY THE MANUFACTURER WHEREVER POSSIBLE
- 3. ALL SEALANTS USED SHALL BE COLOR MATCHED TO THE ADJACENT MATERIAL OR AS LISTED.

EXTERIOR ELEVATION KEYED NOTES: (#)

1. PREFINISHED METAL COPING W/ DRIP EDGE.

DRAWINGS AND TDL REPRESENTATIVE.

- 2. GAS METER. VERFIY EXACT LOCATION W/ UTILITY COMPANY, CIVIL
- 3. CLEAR ANODIZED ALUMINUM STOREFRONT W/ INSULATED GLAZING. SEE WINDOW SCHEDULE ON SHEET All AND EXTERIOR FINISH SCHEDULE ON SHEET A5.
- 4. FOUNDATION. (SEE STRUCTURAL)
- 5. INTERNALLY ILLUMINATED BUILDING SIGNAGE PROVIDED AND INSTALLED BY TDL. G.C. TO PROVIDE ALL REQUIRED BLOCKING AND FINAL ELECTRICAL CONNECTION. SIGN MANUFACTURER SHALL OBTAIN SIGNAGE PERMITS FROM THE CITY BASED ON LOCAL REQUIREMENTS. G.C. SHALL VERIFY ACTUAL LOCATION AND SIZE OF SIGNS WITH SIGN MANUFACTURER. APPROVED DRAWINGS AND COORDINATE LOCATIONS FOR BLOCKING AND UTILITIES.
- 6. CONTINUOUS CONCRETE FOOTING. (SEE STRUCTURAL)
- 7. PROVIDE \$ INSTALL 4" DIA. CONCRETE FILLED STEEL PIPE BOLLARDS AROUND GAS METER AND CT CABINET PER LOCAL CODES \$ UTILITY COMPANY REQUIREMENTS. PAINT BOLLARDS COLOR: TBD.
- 8. CELLULAR PVC SILL CONTINUOUS AROUND BUILDING. SEE FINISH SCHEDULE & SECTIONS.
- 9. AUTOMATIC BIPARTING DRIVE THRU WINDOW FURNISHED BY TDL AND INSTALLED BY G.C. VERIFY MANUFACTURER \$ DELIVERY W/ TDL REPRESENTATIVE.
- 10. LINE OF ROOF BEHIND.
- CARD READER.
- 12. GOOSENECK LIGHT FIXTURE ABOVE AWNINGS MOUNT J-BOX @ 11'-0"

13. GOOSENECK LIGHT FIXTURES ABOVE SIGNAGE BAND MOUNT J-BOX @

- 14. HOLLOW METAL DOOR \$ FRAME. PAINT: PAINT REAR DOOR AND
- 15. C/T CABINET AND METER AS REQID. VERIFY WITH LOCAL ELECTRICAL COMPANY.
- 16. FABRIC AWNING AND SUPPORT STRUCTURE PROVIDED AND INSTALLED BY OWNER. COLOR \$ SIGNAGE T.B.D. G.C. TO PROVIDE BLOCKING IN WALL AS REQUIRED.
- 17. GENERAL PURPOSE LIGHT FIXTURE AS SPECIFIED ON SHEET EI MOUNT FIXTURE @ 12'-4" A.F.F.
- 18. G.C. TO PROVIDE \$ INSTALL 6" DIA. CONC. FILLED PIPE BOLLARD @ DRIVE-THRU WINDOW. SEE PLACEMENT DETAIL ON SHEET SD-
- 19. (2) LAYERS 11 1/4"W X 3/4" THICK NICHIHA SMOOTH TRIM BOARD. SEE DETAILS ON A7.1.
- 20. OUTSIDE CORNERS TO RECEIVE (2) LAYERS 3/4" X 3 1/2" PREFINISHED FIBER CEMENT TRIM BOARDS RIP BACKER BOARD AS REQ'D TO CREATE SINGLE THICKNESS LAP JOINT. TYP. U.N.O.
- 21. PROVIDE NICHIHA IX TRIM AT PARAPET END. COLOR TO MATCH ADJACENT TRIM.
- 22. DASHED LINE INDICATES EXTENT OF WINDOW FRAME ON UNDERSIDE OF CANOPY.
- 23. WATER HEATER FLUE.
- 24. LINE OF PARAPET BEYOND.
- 25. SIGN COMPANY TO PROVIDE \$ INSTALL TRANSLUCENT WINDOW FILM (FROSTING) FROM MULLION TO 36" A.F.F.

SYMBOL LEGEND





- NOTE REFERENCE. SEE EXTERIOR ELEVATION CODED NOTES
- WINDOW NUMBER. REFER TO SCHEDULES ON DRAWING AII.

LAST DESIGN BULLETIN

NUM. DATE DESCRIPTION

REVISION/UPLOAD DATE REV. DATE DESCRIPTION RFP#1 01/31/11 GENERICS UPLOAD

RFP#2 03/17/11 GENERICS UPLOAD

RFP#3 04/20/11 GENERICS UPLOAD

DATE ISSUED: 03/14/2011

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ELEVATIONS

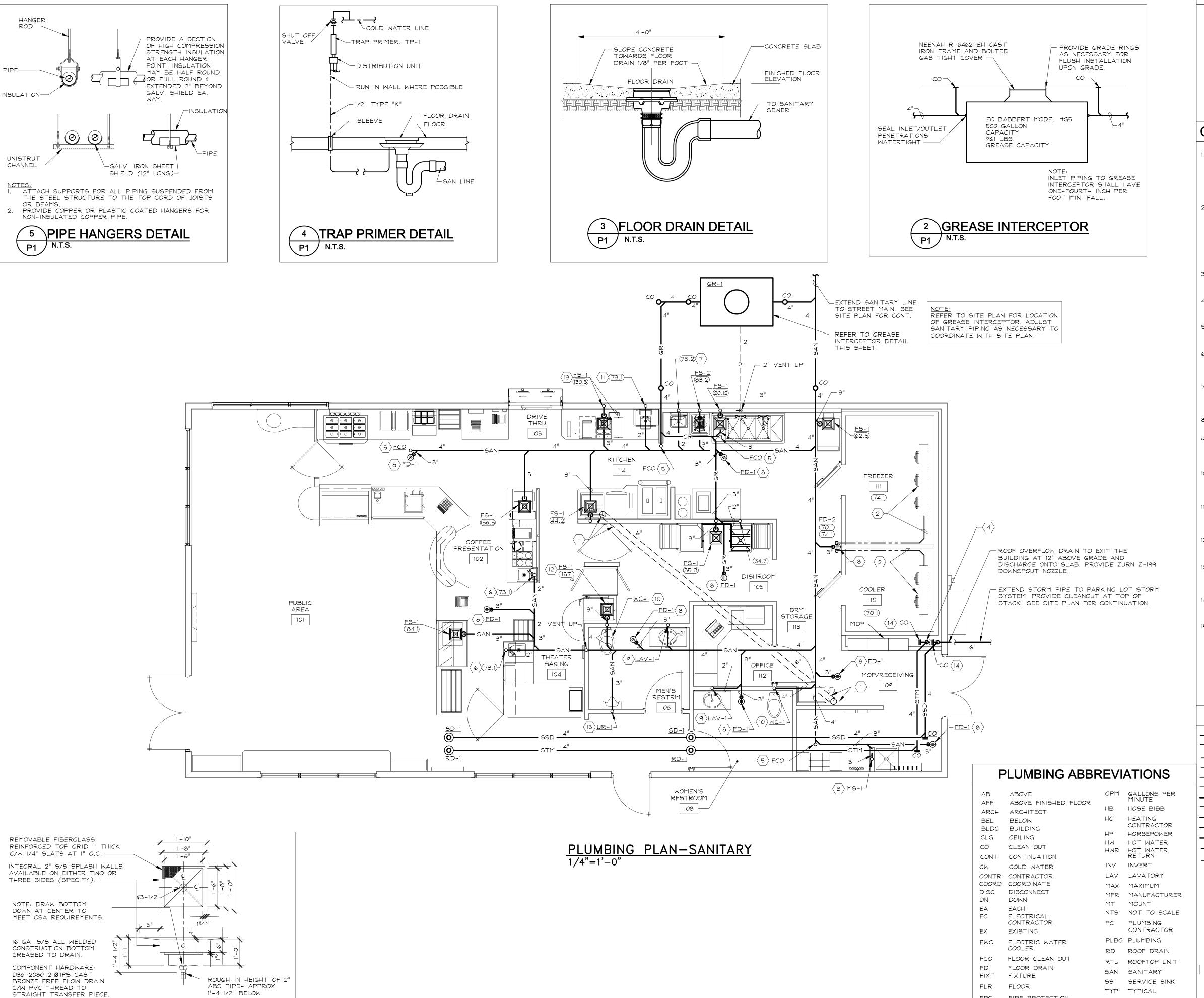
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CONSTRUCTION

DRAWING NUMBER:



FINISHED FLOOR.

MOP SINK TO BE ROUGHED IN 1" BELOW FINISHED

<u> 1 RECESSED MOP SINK DETAIL</u>

FLOOR TO PERMIT SLOPING OF FLOOR TO SINK.

COORDINATE WITH ARCHITECTURAL TRADES.

GENERAL NOTES

- PLUMBING CONTRACTOR SHALL MAKE ALL CONNECTIONS TO KITCHEN EQUIPMENT AND MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED.
- 2. SEE SHEET P3 FOR KITCHEN EQUIPMENT SCHEDULE,
- FIXTURE SCHEDULE, AND SANITARY ISOMETRIC. 3. THE PLUMBING CONTRACTOR SHALL COORDINATE THE DIRECTION OF THE SANITARY MAIN AND THE LOCATION OF THE GREASE INTERCEPTOR WITH THE SITE PLAN PRIOR TO ROUGH-IN.
- 4. PROVIDE A TRAP PRIMER ON ALL FLOOR DRAINS.

CODED NOTES (#)

- ROUTE 6" SCHEDULE 40 PVC CONDUIT BELOW SLAB USIN ONLY LONG ELBOWS FOR CHANGES IN DIRECTIONS. BEVERAGE CONDUIT TO BE FREE OF ALL FOREIGN MATERIAL, SEALED AND PRESSURE TESTED PRIOR TO INSTALLATION, AND BEFORE SYRUP LINES ARE ACTIVATED. STUB CONDUIT ABOVE SLAB AND RUN SYRUP LINES UP TO COUNTER SPACE NEAR ITEM #44.2.
- . EVAPORATOR INSIDE WALK-IN COOLER AND FREEZER TO BE DRAINED TO NEAREST FLOOR DRAIN. USE 1" DIAMETER COPPER LINE AND 45 DEG. ELBOWS WHEN CHANGING DIRECTION. HEAT TRACING INSIDE FREEZER IS TO BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR. THE ELECTRICAL CONTRACTOR IS TO CONNECT IT TO POWER. DRAINAGE AND HEAT TRACING INSTALLATION ARE AS PER MANUFACTURER'S RECOMMENDATIONS. RUN TIGHT TO COOLER WALLS.
- B. RECESSED STAINLESS STEEL MOP SINK. PROVIDED AND INSTALLED BY G.C. MOP SINK TO BE PURCHASED FROM KITCHEN EQUIPMENT SUPPLIER.
- . DROP A 4" DOWNSPOUT TO BELOW THE SLAB THEN TRANSITION TO 6" AT THE ELBOW. PROVIDE CLEANOUT AT TOP AND BOTTOM OF STACK.
- . FLOOR CLEANOUTS SHALL BE LEVEL AND FLUSH WITH SURROUNDING FLOOR. DO NOT SLOPE FLOOR TO
- . EXTEND 2" SANITARY LINE UP TO ITEM #73.1 WITH TRAP. SEE SANITARY ISOMETRIC FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- ". EXTEND 2" SANITARY LINE UP TO 18" A.F.F. FOR ITEM #73.2 WITH TRAP. SEE SANITARY ISOMETRIC FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- B. PROVIDE TRAP PRIMER FOR FLOOR DRAINS, SEE DETAIL ON THIS SHEET FOR MORE INFORMATION.
- 1. EXTEND 2" SANITARY LINE UP TO 14" A.F.F. FOR LAV-1 WITH TRAP. SEE SANITARY ISOMETRIC FOR MORE INFORMATION. COORDINATE WITH MANUFACTURER'S EQUIPMENT PRIOR TO ROUGH-IN.
- O. FLOOR MOUNTED WATER CLOSET. EXTEND 4" SANITARY LINE TO WATER CLOSET. COORDINATE EXACT LOCATION OF SANITARY OPENING WITH THE MANUFACTURER'S EQUIPMENT.
- . EXTEND 2" SANITARY LINE UP TO 18" A.F.F. FOR ITEM #73.1 WITH TRAP. SEE SANITARY ISOMETRIC FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- 2. STEAMER OVEN ITEMS #157 TO BE DRAINED TO NEAREST FLOOR SINK WITH 1-1/2" LINE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE INDIRECT CONNECTION.
- 3. PROVIDE I" COPPER DRAIN LINE FOR ITEM #130.3. RUN DRAIN LINE TIGHT TO BACK OF COUNTER AND PROVIDE AN INDIRECT WASTE CONNECTION TO FLOOR SINK AS
- 4. DROP A 4" STORM AND 4" SECONDARY STORM PIPE IN CHASE. PROVIDE CLEANOUT AT TOP AND BOTTOM OF
- 5. EXTEND 2" SANITARY LINE UP TO UR-1. SEE SANITARY ISOMETRIC FOR MORE INFORMATION. SEE SHEET A9 FOR UR-1 RIM MOUNTING HEIGHT. COORDINATE HEIGHT OF DRAIN WITH A9 AND WITH MANUFACTURER'S EQUIPMENT PRIOR TO ROUGH-IN.

PLUMBING SYMBOLS

DOMESTIC WATER PIPE DOMESTIC HOT WATER 110°F ---- 110°HW-----DOMESTIC HOT WATER 140°F ---140°HW-----DOMESTIC HOT WATER RETURN — F —— SPRINKLER PIPE ---SAN----SANITARY PIPE ---v---SANITARY VENT PIPE ——STM—— STORM PIPE ——SSD—— SECONDARY STORM PIPE <u> —</u>GR — GREASE SANITARY PIPE FILTER WATER PIPE ------ FW---------(E)XX EXISTING PIPE OR EQUIPMENT KITCHEN EQUIPMENT DESIGNATION, REFER TO KITCHEN EQUIPMENT CONNECTION SCHEDULE. PIPF -CHECK VALVE \bowtie

\circ	1 11 L - 01
<u></u>	PIPE - DOWN
P	THERMOMETER
φ	PRESSURE GAGE
	INLINE PUMP
BFP	BACK FLOW PREV.
DS.	P # T RELIEF VALVE
\square	ACCESS DOOR
\searrow	COMBINATION BALANCE /SHUT-OFF
abla	GATE VALVE

GLOBE VALVE

CONNECT TO EXISTING

DRAIN VALVE

TW TEMPERED WATER

VTR VENT THRU ROOF

WC WATER CLOSET

WCO WALL CLEAN OUT

WH WATER HEATER

UR URINAL

W/ WITH

VENT

FIRE PROTECTION

CONTRACTOR

FLUSH VALVE

CONTRACTOR

GALLONS PER HOUR

FURN FURNISH

GAS

GALLON

GENERAL

FV

GAL

GPH

GAGE COCK DEVELOPMENT CHECK VALVE NOT FOR BALANCE VALVE OR GAS VALVE BALL VALVE

UNION

FLOOR OR AREA

DRAIN

XHOSE BIBB

→ CONCENTRIC

- ECCENTRIC

CAPPED LINE

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REVISION/UPLOAD DATE

REV. DATE DESCRIPTION RFP#1 01/31/11 GENERICS UPLOAT

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LAST DESIGN BULLETIN NUM. DATE DESCRIPTION

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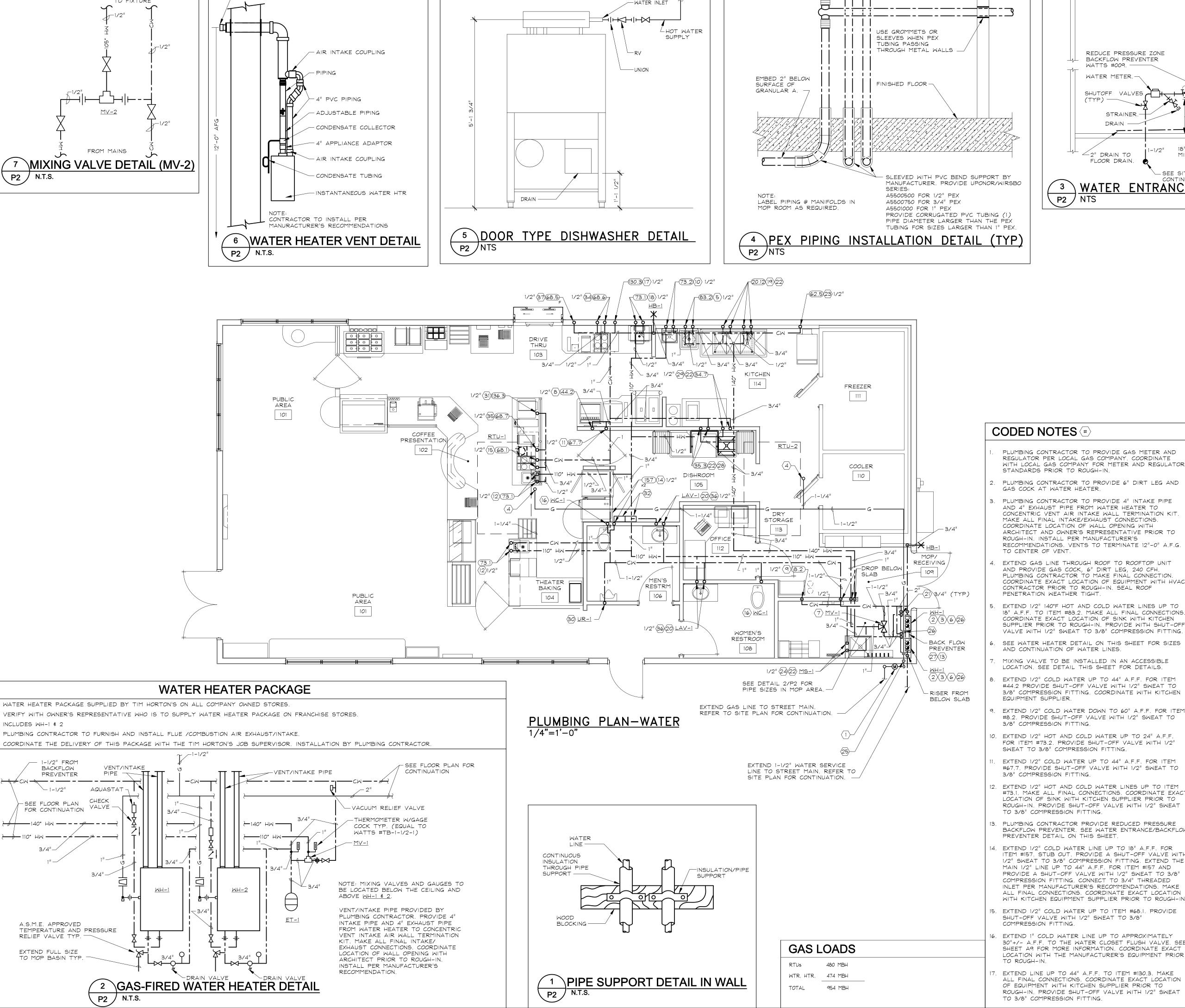
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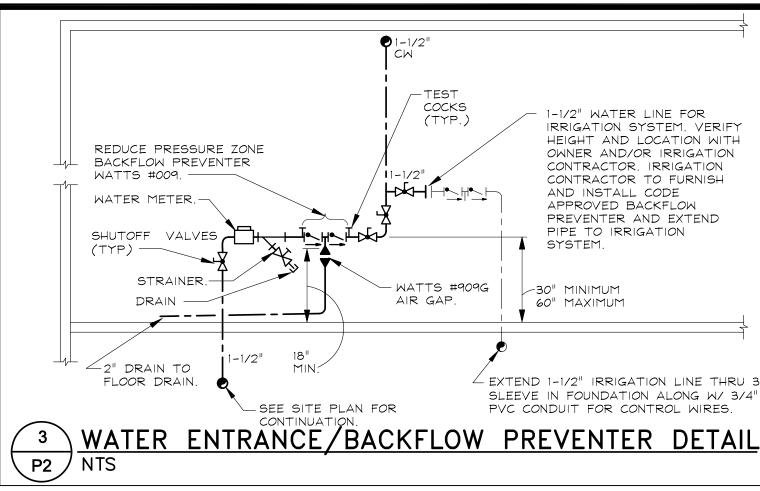
CONSTRUCTION

DESIGN

SAI# **DRAWING NUMBER:**



- VENT TERMINATION



GENERAL NOTES

ALL COLD AND HOT WATER LINES SHALL BE INSTALLED UNDER SLAB. COORDINATE WITH OTHER TRADES PRIOR 1 ROUGH-IN OF PIPING TO PREVENT CONFLICT.

COORDINATE LOCATION AND ROUGH-IN HEIGHT OF KITCHEN EQUIPMENT WITH KITCHEN SUPPLIER PRIOR TO ROUGH-IN.

PLUMBING CONTRACTOR TO MAKE ALL CONNECTIONS TO KITCHEN EQUIPMENT AND MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED.

- . SEE SHEET P3 FOR KITCHEN EQUIPMENT SCHEDULE, FIXTURE SCHEDULE, AND DETAILS.
- PROVIDE SHOCK ABSORBERS AT THE END RUN OF ALL WATER PIPING. SIZE AS RECOMMENDED BY PLUMBING AND DRAINAGE INSTITUTE, AND AS RECOMMENDED BY THE MANUFACTURER.
- . ALL PIPING (GAS AND WATER) TO BE CONCEALED IN WALI SPACE WHEN POSSIBLE.
- ALL HOT AND COLD WATER LINES INSTALLED IN EXTERIOR WALLS ARE TO BE INSTALLED ON THE WARM SIDE OF THE INSULATION AND INSULATED TO PREVENT FREEZING.
- . ALL DOMESTIC WATER PIPING BELOW SLAB SHALL BE PEX PIPING UNLESS PROHIBITED BY LOCAL CODES IN WHICH CASE COPPER SHALL BE USED. IF ALLOWED, PEX PIPING TO BE INSTALLED TO MEET ALL LOCAL CODES.

PLUMBING CONTRACTOR TO PROVIDE GAS METER AND REGULATOR PER LOCAL GAS COMPANY. COORDINATE WITH LOCAL GAS COMPANY FOR METER AND REGULATOR STANDARDS PRIOR TO ROUGH-IN.

PLUMBING CONTRACTOR TO PROVIDE 6" DIRT LEG AND GAS COCK AT WATER HEATER.

PLUMBING CONTRACTOR TO PROVIDE 4" INTAKE PIPE AND 4" EXHAUST PIPE FROM WATER HEATER TO CONCENTRIC VENT AIR INTAKE WALL TERMINATION KIT. MAKE ALL FINAL INTAKE/EXHAUST CONNECTIONS. ARCHITECT AND OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. VENTS TO TERMINATE 12"-0" A.F.G.

EXTEND GAS LINE THROUGH ROOF TO ROOFTOP UNIT AND PROVIDE GAS COCK, 6" DIRT LEG, 240 CFH. PLUMBING CONTRACTOR TO MAKE FINAL CONNECTION. COORDINATE EXACT LOCATION OF EQUIPMENT WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN. SEAL ROOF

EXTEND 1/2" 140°F HOT AND COLD WATER LINES UP TO 18" A.F.F. TO ITEM #83.2. MAKE ALL FINAL CONNECTIONS. COORDINATE EXACT LOCATION OF SINK WITH KITCHEN SUPPLIER PRIOR TO ROUGH-IN. PROVIDE WITH SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING.

SEE WATER HEATER DETAIL ON THIS SHEET FOR SIZES AND CONTINUATION OF WATER LINES.

MIXING VALVE TO BE INSTALLED IN AN ACCESSIBLE LOCATION. SEE DETAIL THIS SHEET FOR DETAILS.

EXTEND 1/2" COLD WATER UP TO 44" A.F.F. FOR ITEM #44.2 PROVIDE SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING. COORDINATE WITH KITCHEN

EXTEND 1/2" COLD WATER DOWN TO 60" A.F.F. FOR ITEM #8.2. PROVIDE SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING.

EXTEND 1/2" HOT AND COLD WATER UP TO 24" A.F.F. FOR ITEM #73.2. PROVIDE SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING.

EXTEND 1/2" COLD WATER UP TO 44" A.F.F. FOR ITEM #67.7. PROVIDE SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING.

#73.1. MAKE ALL FINAL CONNECTIONS. COORDINATE EXACT LOCATION OF SINK WITH KITCHEN SUPPLIER PRIOR TO ROUGH-IN. PROVIDE SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING.

- 13. PLUMBING CONTRACTOR PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER. SEE WATER ENTRANCE/BACKFLOW PREVENTER DETAIL ON THIS SHEET.
- 14. EXTEND 1/2" COLD WATER LINE UP TO 18" A.F.F. FOR ITEM #157. STUB OUT. PROVIDE A SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING. EXTEND THE MAIN 1/2" LINE UP TO 44" A.F.F. FOR ITEM #157 AND PROVIDE A SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING. CONNECT TO 3/4" THREADED INLET PER MANUFACTURER'S RECOMMENDATIONS. MAKE ALL FINAL CONNECTIONS. COORDINATE EXACT LOCATION
- 5. EXTEND 1/2" COLD WATER UP TO ITEM #68.1. PROVIDE SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING.
- EXTEND 1" COLD WATER LINE UP TO APPROXIMATELY 30"+/- A.F.F. TO THE WATER CLOSET FLUSH VALVE. SEE SHEET A9 FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH THE MANUFACTURER'S EQUIPMENT PRIOR
- EXTEND LINE UP TO 44" A.F.F. TO ITEM #130.3. MAKE ALL FINAL CONNECTIONS. COORDINATE EXACT LOCATION OF EQUIPMENT WITH KITCHEN SUPPLIER PRIOR TO ROUGH-IN. PROVIDE SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING.

- EXTEND 1/2" HOT AND COLD WATER LINES UP TO 24" A.F.F. FOR ITEM #73.1. MAKE ALL FINAL CONNECTIONS. COORDINATE EXACT LOCATION OF SINK WITH KITCHEN SUPPLIER PRIOR TO ROUGH-IN. PROVIDE SHUT-OFF VALVES WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING
- EXTEND 1/2" 140°F HOT AND COLD WATER LINES UP TO 18" A.F.F. TO ITEM #20.12. MAKE ALL FINAL CONNECTIONS COORDINATE EXACT LOCATION OF FAUCETS WITH KITCHEN SUPPLIER PRIOR TO ROUGH-IN. PROVIDE WITH SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING
- EXTEND 1/2" HOT AND COLD WATER LINES UP TO 18 A.F.F. TO THE LAVATORY. MAKE ALL FINAL CONNECTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE WITH SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING.
- 21. DROP 3/4" CW AND HW LINES TO WATER HEATERS. 2. FURNISH AND INSTALL CHECK VALVES IN THE COLD WATER AND HOT WATER SUPPLY TO PLUMBING FIXTURE/KITCHEN EQUIPMENT INDICATED. VALVES ARE TO BE LOCATED IN AN ACCESSIBLE LOCATION.
- 23. EXTEND 1/2" COLD WATER UP TO 60" A.F.F. FOR ITEM #62.5. PROVIDE SHUT OFF VALVE, BACKFLOW PREVENTER, AND FLEXIBLE COPPER TUBING AS REQUIRED TO MAKE FINAL CONNECTION.
- 4. EXTEND 1/2" HOT WATER LINE AND 1/2" COLD WATER LINE DOWN TO 30" A.F.F. TO THE MOP SINK. FAUCET. MAKE ALL FINAL CONNECTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
- 25. 2" GAS LINE TO RISE UP IN WALL TO ABOVE CEILING.
- 26. DROP 1" GAS LINE DOWN TO EACH WATER HEATER.
- 7. EXTEND 1-1/2" WATER LINE, STUB OUT DOWNSTREAM FROM BACKFLOW PREVENTER, FOR IRRIGATION SYSTEM. VERIFY HEIGHT AND LOCATION WITH OWNER AND/OR IRRIGATION CONTRACTOR.
- 8. EXTEND 3/4" 140°F HOT WATER LINE UP TO 54" A.F.F ITEM #35.3. EXTEND 1/2" CW UP TO 24" A.F.F. TO DRAIN QUENCH SYSTEM SUPPLIED WITH UNIT. MAKE ALL FINAL CONNECTIONS. COORDINATE EXACT LOCATION WITH KITCHEN SUPPLIER PRIOR TO ROUGH-IN. PROVIDE WITH SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING.
- 9. EXTEND 1/2" HOT AND COLD WATER LINES UP TO 18" A.F.F. TO ITEM #34.7. MAKE ALL FINAL CONNECTIONS. COORDINATE EXACT LOCATION WITH KITCHEN SUPPLIER PRIOR TO ROUGH-IN. PROVIDE WITH SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING.
- 0. EXTEND 3/4" COLD WATER LINE UP TO UR-1. SEE SHEET A9 FOR URINAL RIM HEIGHT. COORDINATE EXACT LOCATION WITH THE MANUFACTURER'S EQUIPMENT PRIOR TO ROUGH-IN.
- EXTEND 1/2" COLD WATER LINES UP TO ITEM #136.3. MAKE ALL FINAL CONNECTIONS. PROVIDE SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING
- 2. MOUNT CHEMICAL/FILTRATION UNITS PER DIRECTION O SHEET A2. UNITS ARE PROVIDED BY EQUIPMENT SUPPLIER, INSTALLED AND CONNECTED BY PLUMBING CONTRACTOR PER MANUFACTURER'S RECOMMENDATIONS
- 34. EXTEND 1/2" COLD WATER UP TO 44" A.F.F. FOR ITEM #68.6. PROVIDE SHUT-OFF VALVE WITH 1/2" SWEAT TO
- 3/8" COMPRESSION FITTING. 5. EXTEND 1/2" COLD WATER UP TO 44" A.F.F. FOR ITEM
- #68.7. PROVIDE SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING. 6. FURNISH AND INSTALL SINGLE POINT OF USE MIXING VALVE AT EACH ACCESSIBLE LAVATORY MEETING ASSE

1016. PIPE PER DETAIL ON THIS SHEET. INSTALL PER

MANUFACTURER'S RECOMMENDATIONS.

7. EXTEND 1/2" COLD WATER UP TO 44" A.F.F. FOR FUTURE ITEM #68.5. PROVIDE SHUT-OFF VALVE WITH 1/2" SWEAT TO 3/8" COMPRESSION FITTING.

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