

• 4211 Bradley •

Debbie Ingram 2-19-85

CITY OF LAS VEGAS, NEVADA

Sylvia Thomas 645-2591

LOG NO. & AREA E-11 DATE 2A-11-038 COST VAL. \$ 54,400.00

DEPARTMENT OF BUILDING AND SAFETY PHONE 386-6251 BUILDING PERMIT - FOR: Single Family Dwelling, Remodel, Additions, Misc. Residential Construction.

ADDRESS OF CONSTRUCTION 4211 Bradley OWNER Sylvia Thomas PHONE NO. _____

LOT(S) R-E-2 SUBDIVISION SALT TOWER 60E ZONE R-E

PROPOSED CONSTRUCTION SFD w/ FIREPLACE USE _____

THIS PERMIT FOR BLDG. A/C ELEC. PLBG. OTHER PERMITS REQ. FENCE OFF SITE SWIM POOL

FLOOR AREA BSMT _____ 1ST 1905 2ND _____ GARAGE 487 PORCH _____ TOTAL _____

CONTRACTOR OWNER STATE LICENSE NO. _____ CITY LICENSE NO. _____

ARCHITECT _____ ENGINEER _____

MASTER PLUMBER _____ MASTER ELECTRICIAN _____

OTHER INSPECTIONS AND FEES

1. Inspections outside of normal business hours = \$25.00 per hour (minimum charge three hours).
2. Re-inspection fee during normal business hours assessed under provisions of TABLE 3 A of the Uniform Building Code = \$15.00 per hour.
3. Inspections during normal business hours for which no fee is specifically indicated = \$15.00 per hour (minimum charge one half hour).
4. Additional plan review required by changes, additions, or revisions to approved plans = \$25.00 per hour (minimum charge two hours).

CONDITIONS OF THE PERMIT:

1. I agree to call the City Building Department for inspections before concrete is poured, before rough wiring, electrical, plumbing, framing is covered. Also for air-conditioning, drywall and sheathing inspection.
2. I agree that when the job is completed that I will call for final inspection before occupancy.
3. I agree to perform all construction in accordance with City Ordinances and Building Codes.
4. The Contractor's signature below denotes authority from the owner to sign in his behalf and that the owner is aware of all requirements of this application and permit. Separate permits must be taken out for work outlined above this agreement.
5. I have read and understand the contents of this application and permit; I hereby state that the information I have supplied on this application is true and correct.
6. Approval for the work under this permit will be given only after refuse and debris have been removed from job site and public right of way.
7. 24 HOUR MINIMUM NOTICE REQUIRED FOR INSPECTIONS.

BY: Sylvia Thomas OWNER

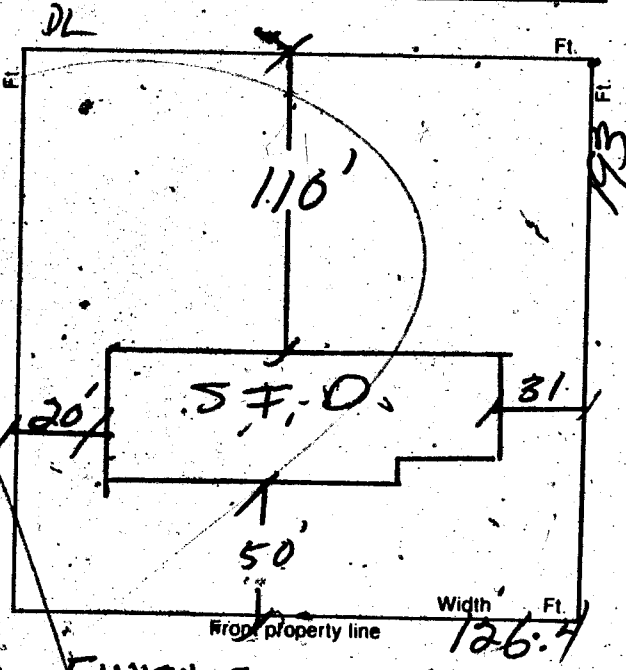
BY: _____ AGENT

I hereby certify that I have reviewed this application and the proposed plans and have found that the proposed development meets the requirements of the City of Las Vegas Flood Hazard Reduction Ordinance for the issuance of this Development Permit.

LAND DEVELOPMENT AND FLOOD CONTROL ENGINEER: [Signature] DATE 2/8/85

PLANNING DEPT.: [Signature] DATE 2/5/85

BUILDING DEPT.: [Signature] DATE 2/6/85



PLUMBING		FEE	ELECTRICAL		FEE
WATER DISTRIBUTION	6.00	6.00	RECEPTACLE 20	SWITCH 17	40
SEWER SYSTEM - NEW OR MODIFICATION	10.00	10.00	EACH LIGHT FIXTURE OR SOCKET	12	30
FIXTURES - WATER SOFTENER, H.W. HEATER	2.00	12.00	SPECIAL OUTLET, APPLIANCE ETC.	3	70
GARBAGE DISPOSAL - WASHER	2.00	4.00	SERVICE/PANEL - SUB/3.00 - 200A/6.00 - 400A/12.50		6.00
FUEL PIPING	6.00		A.C. UNIT OR MOTORS	3.00	3.00
GAS APPL. OR A/C UNIT - 3 TON = 6.00 OVER = 11.00			2310 - 2402	TOTAL	38.70
IRRIGATION SYSTEM	8.00		MISC.		
2310 - 2403	TOTAL	39.00	2310 - 2401 ISSUANCE FEE		
AIR CONDITIONING			7114 - 3654 SEWER CONNECTION		
NEW UNIT - 3 TON = 6.00 OVER = 11.00		11.00	2310 - 2401 PLAN REVIEW FEE		193
FURNACE TO 100,000/6.00 OVER/7.50			2310 - 2401 BLDG. PERMIT FEE		298.00
VAPORATIVE COOLER	4.50		TOTAL FEES		580.20
VENTILATION FAN	1.50	1.50			
2310 - 2405	TOTAL	12.50			

RECEIPT 004**

PLBK	193.00
SFD	298.00
ELEC	38.70
PLBG	38.00
A/C	12.50
CHEK	580.20
5413A000	15.00

PERMIT NO. 5413
MUST BE MACHINE VALIDAT

Debbie Ingrasso 2-25-85

FINISH FLOOR ELEVATIONS

TO: All Permittees Issued a Building Permit

SUBJECT: Certification of the Actual Finish Floor Elevations of all Structures

I/we Blenn Thomas
(Engineer) (Contractor) (Owner)

the permit holder and contractor do certify that the finish floor elevation of the structure located at 4211 BRADLEY does meet the requirements of the plot-grading plan or site plan, as per the Flood Hazard Reduction Ordinance No. 3008.

2840
1350
OS
1350

The inspection allowing the concrete pour shall not be signed by the building inspector unless all of the above requirements are met.

DATE: 2/15/85
BUILDING INSPECTOR: V. Hoffman

Cable Ingoton 5-24-85

OWNER Sylvia Thomas		ADDRESS 4211 Bradley	
DATE 2-8-85		GEN. CONT. Owner	
BLND. TYPE SFU w/tp		PERMIT No 5413	
LEGAL		BOG No.	
BUILDING		MECHANICAL	
Pt. Loc. & Ft. <input type="checkbox"/>		Plumbing Cont. Owner	
Location & Footing <input type="checkbox"/> VH25-85		Permit No. 5413-2	Date 2-8-85
Stemwall <input type="checkbox"/>		A/C Cont. Owner	
Concrete Slab Floor <input type="checkbox"/>		Permit No. 5413-3	Date 2-8-85
Chimney Steel <input type="checkbox"/>		Sewer Fee	
Fireplace Footing <input type="checkbox"/> VH25-85		Irrig. Cont.	
Vert. Steel Reinf. <input type="checkbox"/>		Permit No.	Date
Horiz. Steel Reinf. <input type="checkbox"/>		Hood Cont.	
Roof Sheathing		Permit No.	Date
Insulation VH318-85		Rough Soil <input type="checkbox"/>	
Framing		Rough Water <input type="checkbox"/>	
Ext. Lath		Tap Out	
Ext. Scratch		Rough Gas	
Ext. Brown		A/C Rough Duct	
Drywall VH322-85		Final Plumbing VH5-3-85	
Final Building VH5-3-85		Final Gas	
Appr. for Occ. Final Building		Final Air Cond. VH5-3-85	
		Final Sewer	
ELECTRICAL		ELECTRICAL	
Electrical Cont. Owner		Rough Hood <input type="checkbox"/>	
Permit No. 5413-1	Date 2-8-85	Final Hood <input type="checkbox"/>	
PT. Rough		Final Irrig.	
Ground Electrode KB3-13-85		ELECTRICAL	
Temporary Power		Temp. Pole Cont.	
Meter Tag 5524		Permit No.	Date
Final Electrical VH5-3-85		Inspection	Date

Debbie Ingram 7-29-86

CITY OF LAS VEGAS, NEVADA

LOG NO. & AREA _____ DATE _____ CONST. VAL. \$ 3,150.00

DEPARTMENT OF BUILDING AND SAFETY

BUILDING PERMIT - FOR: Single Family Dwelling, Remodel, Additions, Misc. Residential Construction

PHONE 386-6251
ADDRESS OF CONSTRUCTION 4311 BRADLEY RD OWNER GENE HATLER PHONE NO. 645-2787

LOT(S) R-1 E 25' x 125' 1/2' SUBDIVISION BLOCK T 705 R 60 E ZONE R-E

PROPOSED CONSTRUCTION CARPET - PATIO ALUM. USE _____

THIS PERMIT FOR BLDG. A/C ELEC. PLBG. OTHER PERMITS REQ. FENCE OFF SITE SWIM POOL

FLOOR AREA BSMT. _____ 1ST _____ 2ND _____ GARAGE _____ PORCH 1050 TOTAL 1050

CONTRACTOR CONST. UNLIMITED STATE LICENSE NO. 0023714 CITY LICENSE NO. C11-02085-20

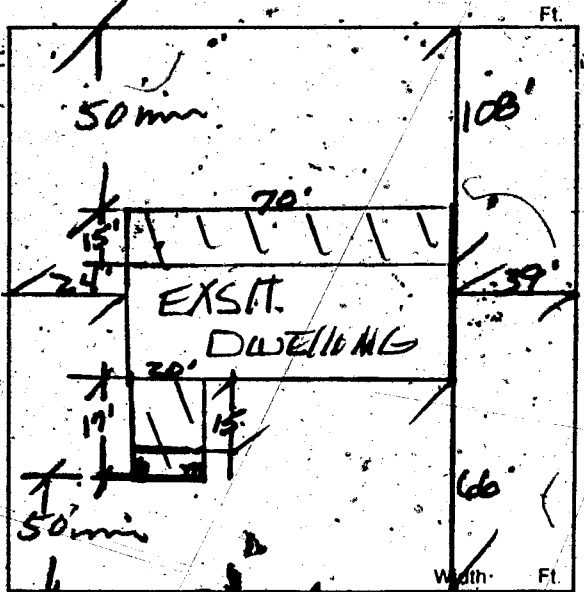
ARCHITECT _____ ENGINEER FCBO # 2099P MASTER PLUMBER/CONTRACTOR _____ MASTER ELECTRICIAN/CONTRACTOR _____

OTHER INSPECTIONS AND FEES

1. Inspections outside of normal business hours = \$30.00 per hour (minimum charge three hours).
2. Re-inspection fee during normal business hours assessed under provisions of TABLE 3-A of the Uniform Building Code = \$30.00 per hour.
3. Inspections during normal business hours for which no fee is specifically indicated = \$30.00 per hour (minimum charge one half hour).
4. Additional plan review required by changes, additions or revisions to approved plans = \$30.00 per hour (minimum charge two hours).

CONDITIONS OF THE PERMIT:

1. I agree to call the City Building Department for inspections before concrete is poured, before rough wiring, electrical, plumbing, framing is covered. Also for air conditioning, drywall and sheathing inspection.
2. I agree that when the job is completed that I will call for final inspection before occupancy.
3. I agree to perform all construction in accordance with City Ordinances and Building Codes.
4. The Contractor's signature below denotes authority from the owner to sign in his behalf and that the owner is aware of all requirements of this application and permit. Separate permits must be taken out for work outlined above this agreement.
5. I have read and understand the contents of this application and permit; I hereby state that the information I have supplied on this application is true and correct.
6. Approval for the work under this permit will be given only after refuse and debris have been removed from job site and public right of way.
7. 24 HOUR MINIMUM NOTICE REQUIRED FOR INSPECTIONS.



I HEREBY DECLARE GENE HATLER LEGAL OWNER OF THE ABOVE PROPERTY. OWNER
AGENT

I hereby certify that I have reviewed this application and the proposed plans and have found that the proposed development meets the requirements of the City of Las Vegas Flood Hazard Reduction Ordinance for the issuance of this Development Permit.

LAND DEVELOPMENT AND FLOOD CONTROL ENGINEER _____ DATE 7/25/86

PLANNING DEPT. _____ DATE 7/25/86

BUILDING DEPT. _____ DATE _____

PLUMBING	FEE	ELECTRICAL	FEE
WATER DISTRIBUTION	6.00	RECEPTACLE _____ SWITCH _____	.40
SEWER SYSTEM - NEW OR MODIFICATION	10.00	EACH LIGHT FIXTURE OR SOCKET	.30
FIXTURES - WATER SOFTENER, H.W. HEATER	2.00	SPECIAL OUTLET, APPLIANCE ETC.	.70
GARBAGE DISPOSAL - WASHER	2.00	SERVICE/PANEL - SUB/3.00 - 200A/6.00 - 400A/12.50	
FUEL PIPING	6.00	A.C. UNIT OR MOTORS	3.00
IRRIGATION SYSTEM	8.00	2310 - 2402	TOTAL
		MISC.	
2310 - 2403	TOTAL	2310 - 2401 ISSUANCE FEE	
		7114 - 9654 SEWER CONNECTION	
AIR CONDITIONING		2310 - 2401 PLAN REVIEW FEE	
NEW UNIT - 3 TON = 9.00 OVER = 16.50	FEE	2310 - 2401 BLDG. PERMIT FEE	<u>53.49</u>
FURNACE TO 100,000/9.00 OVER/11.00		TOTAL FEES	
VAPORATIVE COOLER	6.50		
VENTILATION FAN	2.35		
2310 - 2405	TOTAL		

PERMIT EXPIRES 180 DAYS AFTER ABANDONMENT OF WORK

RECEIPT # 0007**
 SFD 53.40
 CHECK 53.40
 9507A000 08:13

PERMIT NO. _____ MUST BE MACHINE VALIDATED

Debbie Ingerson 11-16-87

CITY OF LAS VEGAS, NEVADA

LOG NO. & AREA _____ DATE _____ CONST. VAL. \$ 6285

DEPARTMENT OF BUILDING AND SAFETY
PHONE 386-6251

DEVELOPMENT PERMIT AND BUILDING PERMIT
FOR: Fence, Wall, Retaining Wall

ADDRESS OF CONSTRUCTION 4211 Bradley Rd

OWNER Marilyn A. Hatcher

CONTRACTOR owner

STATE LICENSE NO. _____

CITY LICENSE NO. _____

LOT(S) _____

BLOCK _____

SUBDIVISION _____

ZONE: R-E

CONSTRUCTION PLANS SUBMITTED BY OWNER/CONTRACTOR

CONSTRUCTION DESIGN BY CITY DESIGN SHEET.

BUILDING PERMIT NO. 3680

ENGINEER _____

Approval for the work under this permit will be given only after refuse and debris have been removed from job site and public right of way.

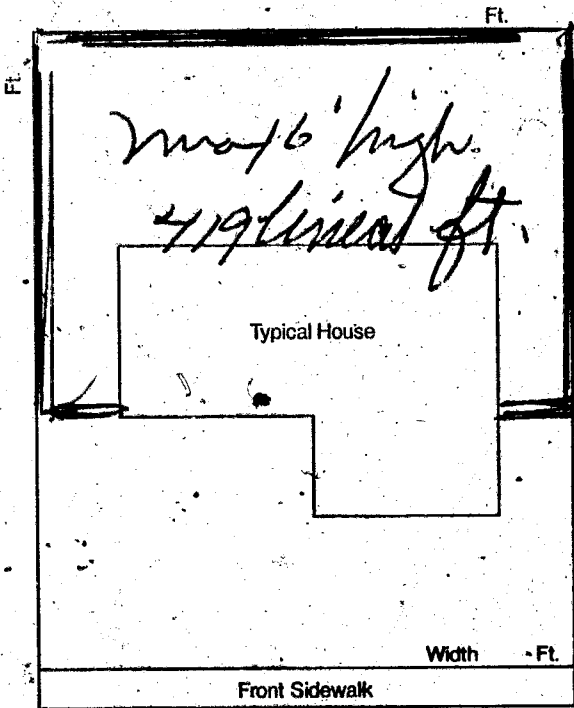
DESCRIPTION	TOTAL LIN. FT.	TOTAL SQ. FT.
CHAIN LINK OR WIRE MESH		
ORNAMENTAL IRON		
WOOD		
<input checked="" type="checkbox"/> MASONRY <u>6' x</u>	<u>419'</u>	<u>2514'</u>
RETAINING		

OTHER INSPECTIONS AND FEES

1. Inspections outside of normal business hours - \$30.00 per hour (minimum charge three hours).
2. Re-inspection fee during normal business hours assessed under provisions of TABLE 3-A of the Uniform Building Code - \$30.00 each.
3. Inspections during normal business hours for which no fee is specifically indicated - \$30.00 per hour (minimum charge one half hour).
4. Additional plan review required by changes, additions or revisions at approved plans - \$30.00 per hour (minimum charge two hours).

CONDITIONS OF THE PERMIT:

1. Any type of retaining wall must be engineered by a Civil or Structural Engineer.
2. If a home owner takes out the Building Permit and if the owner sublets the work to a Contractor, then the Contractor must take out the permit and pay for it.
3. No fence or wall can be built on City property or rights-of-way, but this is not intended to preclude construction within utility easements if utilities will not be damaged or made inaccessible.
4. The fence or wall shall not enclose any water meter, light standard, or fire alarm box and shall not come closer than 24" from the nearest fire hydrant outlet.
5. Department Inspectors must approve footings before concrete is poured and block wall reinforcing before grouting is done.
6. Maximum height of any wall or fence is 6', side and rear yards; 4' maximum in front yard with the vertical surface above the height of 2' - 50% open.
7. I must not obstruct required onsite parking space (2 spaces for each dwelling unit) by the erection of this fence or wall.
8. By the signing of this application I herewith agree to the requirements outlined above.



Marilyn A. Hatcher
SIGNED _____ CONTRACTOR - AGENT - OWNER

PLANNING DEPT. _____
I hereby certify that I have reviewed this application and the proposed plans and have found that the proposed development meets the requirements of the City of Las Vegas Flood Hazard Reduction Ordinance for the issuance of this Development Permit.

B. Bardum N/A 11-2-87
LAND DEVELOPMENT AND FLOOD CONTROL ENGINEER DATE
BUILDING DEPT. _____ DATE

11/02/87

RECEIPT
0003
WALL 75.00
CHEK 75.00
3680A000 15:25

PLAN REVIEW FEE _____

PERMIT FEE 75.00
2310-2401

TOTAL FEES _____

MUST BE MACHINE VALIDA

PERMIT EXPIRES 180 DAYS AFTER ABANDONMENT OF WORK

Albee Ingram 2-10-88

CITY OF LAS VEGAS, NEVADA

LOG NO. & AREA _____ DATE _____ CONST. VAL. \$ 570.00

DEPARTMENT OF BUILDING AND SAFETY
PHONE 386-6251

DEVELOPMENT PERMIT AND BUILDING PERMIT
FOR Fence, Wall, Retaining Wall

ADDRESS OF CONSTRUCTION 4211 Bradley Rd OWNER Marilyn Hatter PHONE _____

CONTRACTOR Owner STATE LICENSE NO. _____ CITY LICENSE NO. _____

LOT(S) R-1 E 2 E 2 E 2 E N 2 SW 1/4 1 205 R 60 E ZONE: R-E

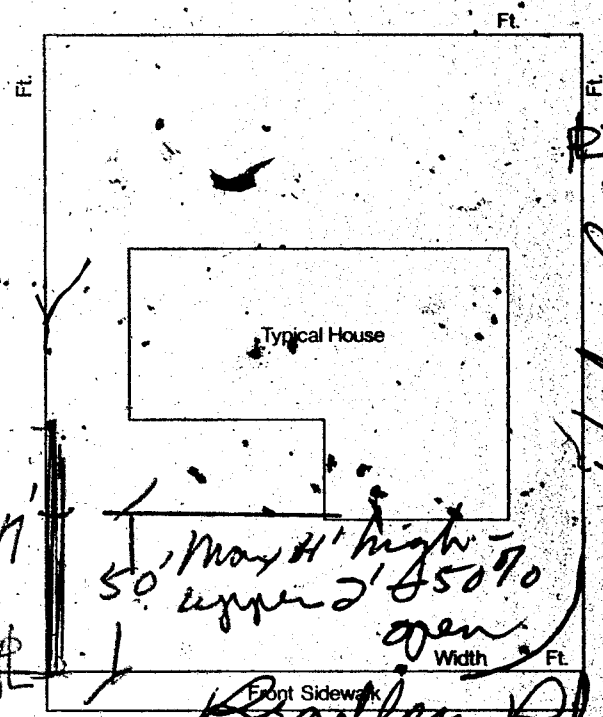
CONSTRUCTION PLANS SUBMITTED BY OWNER/CONTRACTOR CONSTRUCTION DESIGN BY CITY DESIGN SHEET

BUILDING PERMIT NO. 6695 ENGINEER _____ Approval for the work under this permit will be given only after refuse and debris have been removed from job site and public right of way.

DESCRIPTION	TOTAL LIN. FT.	TOTAL SQ. FT.
CHAIN LINK OR WIRE MESH		
ORNAMENTAL IRON		
WOOD		
<input checked="" type="checkbox"/> MASONRY <u>4' X</u>	<u>57'</u>	<u>228'</u>
RETAINING		

OTHER INSPECTIONS AND FEES

- Inspections outside of normal business hours - \$30.00 per hour (minimum charge three hours).
- Re-inspection fee during normal business hours assessed under provisions of TABLE 3-A of the Uniform Building Code - \$30.00 each.
- Inspections during normal business hours for which no fee is specifically indicated - \$30.00 per hour (minimum charge one half hour).
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CONDITIONS OF THE PERMIT

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- If a home owner takes out the Building Permit and if the owner sublets the work to a Contractor, then the Contractor must take out the permit and pay for it.
- No fence or wall can be built on City property or rights-of-way, but this is not intended to preclude construction within utility easements if utilities are not be damaged or made inaccessible.
- The fence or wall shall not enclose any water meter, light standard, or fire alarm box and shall not come closer than 24" from the nearest fire hydrant outlet.
- Department Inspectors must approve footings before concrete is poured and block wall reinforcing before grouting is done.
- Maximum height of any wall or fence is 6' side and rear yards; 4' maximum in front yard with the vertical surface above the height of 2' - 50% open.
- It must not obstruct required onsite parking space (2 spaces for each dwelling unit) by the erection of this fence or wall.
- By the signing of this application I herewith agree to the requirements outlined above.

FOR INSPECTIONS, CALL 799-2071

SIGNED Marilyn A. Hatter CONTRACTOR - AGENT - OWNER

02/09/88

PLANNING DEPT. [Signature] DATE 2/9/88

I hereby certify that I have reviewed this application and the proposed plans and have found that the proposed development meets the requirements of the City of Las Vegas Flood Hazard Reduction Ordinance for the issuance of this Development Permit.

PLAN REVIEW FEE

LAND DEVELOPMENT AND FLOOD CONTROL ENGINEER [Signature] DATE 2/9/88

PERMIT FEE 13.80
2310/2401

BUILDING DEPT. [Signature] DATE 2/9/88

TOTAL FEES

RECEIPT

0004	
WALL	13.80
CHEK	13.80
6695A000	16:00

PERMIT EXPIRES 180 DAYS AFTER ABANDONMENT OF WORK

MOST BE MACHINE VALIDATED

Debbie Ingham 11-7-88

FENCE & RETAINING WALLS

OWNER	Marilyn A. Hatler	DATE	11-3-87
ADDRESS	4211 Bradley		
CONTRACTOR	owner	PERMIT NO.	3680
LOG NO.			
LEGAL			
FENCES (wire, wood, block, & retaining walls)			
1	Location & Footing		
	1st <i>1311-687</i>	2nd	3rd
2	Horiz. & Vert. Steel		
	1st	2nd	3rd
3	Grout		
	1st	2nd	3rd
4	Bond Beam		
	1st	2nd	
5	Final	<i>exp 6/14/88</i>	
Specify Type Of Fence			
2-1-88 DIV. OF BLDG. & SAFETY CITY OF LAS VEGAS REV. 11-84			

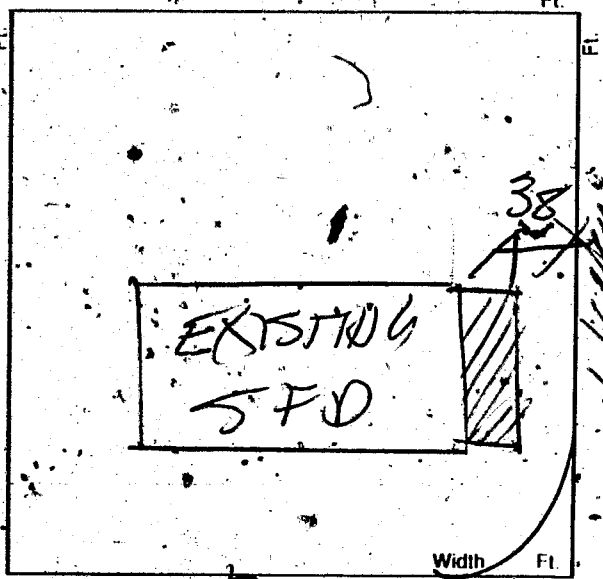
Cibola Ingham 12-12-88

M-1769 CITY OF LAS VEGAS, NEVADA 1540

LOG NO. & AREA DATE 12-1-88 CONST. VAL. \$ 9200

DEPARTMENT OF BUILDING AND SAFETY PHONE 386-6251
ADDRESS OF CONSTRUCTION 4311 BRADLEY OWNER EUGENE HATLER PHONE NO. 645-2787
LOT(S) RFE BLOCK 2 SUBDIVISION 1 POS. R60E ZONE 12-E
PROPOSED CONSTRUCTION PRE FAB METAL BLDG. USE STORAGE
THIS PERMIT FOR 8678 BLDG. [X] A/C [] ELEC. [] PLBG. [] OTHER PERMITS REQD.: FENCE [] OFF SITE [] SWIM POOL []
FLOOR AREA BSMT 1ST 2ND SHEDS 280 PORCH TOTAL 280
CONTRACTOR SELF STATE LICENSE NO. CITY LICENSE NO.
ARCHITECT ENGINEER
MASTER PLUMBER/CONTRACTOR MASTER ELECTRICIAN/CONTRACTOR

- 1. Inspections outside of normal business hours = \$30.00 per hour (minimum charge three hours).
2. Re-inspection fee during normal business hours assessed under provisions of TABLE 3-A of the Uniform Building Code = \$30.00 per hour.
3. Inspections during normal business hours for which no fee is specifically indicated = \$30.00 per hour (minimum charge one half hour).
4. Additional plan review required by changes, additions or revisions to approved plans = \$30.00 per hour (minimum charge two hours).
CONDITIONS OF THE PERMIT:
1. I agree to call the City Building Department for inspections before concrete is poured, before rough wiring, electrical, plumbing, framing is covered. Also for air conditioning, drywall and sheathing inspection.
2. I agree that when the job is completed that I will call for final inspection before occupancy.
3. I agree to perform all construction in accordance with City Ordinances and Building Codes.
4. The Contractor's signature below denotes authority from the owner to sign in his behalf and that the owner is aware of all requirements of this application and permit. Separate permits must be taken out for work outlined above this agreement.
5. I have read and understand the contents of this application and permit. I hereby state that the information I have supplied on this application is true and correct.
6. Approval for the work under this permit will be given only after refuse and debris have been removed from job site and public right of way.
7. 24 HOUR MINIMUM NOTICE REQUIRED FOR INSPECTIONS.



BY Eugene Hatler
I HEREBY DECLARE THAT I AM THE LEGAL OWNER OF THE ABOVE PROPERTY. OWNER
AGENT

I hereby certify that I have reviewed this application and the proposed plans, and have found that the proposed development meets the requirements of the City of Las Vegas Flood Hazard Reduction Ordinance for the issuance of this Development Permit.

LAND DEVELOPMENT AND FLOOD CONTROL ENGINEER 12-1-88 DATE
PLANNING DEPT. 12/1/88 DATE
BUILDING DEPT. 12/2/88 DATE

FOR INSPECTIONS CALL 799-2071

Table with columns for PLUMBING, ELECTRICAL, and FEE. Rows include items like WATER DISTRIBUTION, SEWER SYSTEM, FIXTURES, GARBAGE DISPOSAL, FUEL PIPING, IRRIGATION SYSTEM, MISC., AIR CONDITIONING, and FURNACE. Includes a 'TOTAL FEES' section with a handwritten value of 32.00.

REG 8678**
SFD 32.00
CHEK 32.00
8678A000 13:48
PERMIT NO.
MUST BE MACHINE VALIDATED

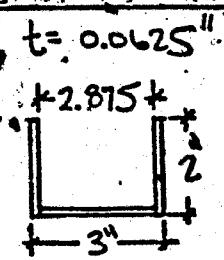
Permit Expires 180 Days After Abandonment of Work

Debbie Ingram 12-12-88

ARROW BLDG : 20' x 20' LL (VERTICAL) SHT. 1 OF 3

4x20 STD TRUSS TG #1

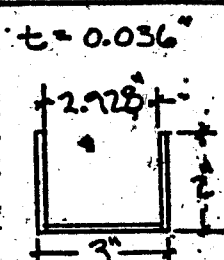
I val (in4) =	1815
S val (in3) =	1292
AREA (in2) =	4237
d val (in) =	5949
r val (in) =	6499



t = 0.0625" (COMPRESSION & BENDING)
 $w/t_{act} = 31$ $w/t_{lim} = 31.6$
 $Q_{tr} = 47.8$ $Q = F_y/t_b = 11.5(1.52) = 0.58$
 $F_a = 9.4$ ksi $F_b = 30$ ksi
 $\frac{8.1}{9.9} + \frac{9.3}{30.3} = 1.13$ (SAY OK: REDUCED BY ROOF PANEL)

4x20 STD TRUSS BC #2

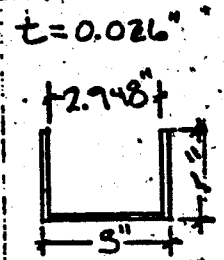
I val (in4) =	1067
S val (in3) =	8754
AREA (in2) =	2494
d val (in) =	5850
r val (in) =	6541



t = 0.036" (TENSION & BENDING)
 $w/t_{act} = 54.6$ $Q = \frac{F_c}{F_b} = \frac{4.8(1.52)}{30.3} = 0.24$
 $F_{act} = 61(1.2)/0.075 = 9760$ PSI
 $Q_{tr} = 46.1$
 $\frac{14.9}{30} + \frac{9.76}{30.3} = 0.82 \therefore OK$

14x20 STD TRUSS WEB #3

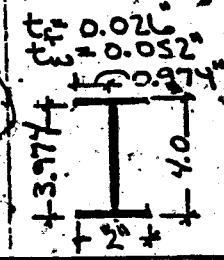
I val (in4) =	8117
S val (in3) =	8148
AREA (in2) =	1286
d val (in) =	2098
r val (in) =	3814



t = 0.026" (TENSION & COMPRESSION)
 $w/t_{act} = 37.46$ $w/t_{lim} = 61.4$
 $Q_{tr} = 48.2$ $Q = \frac{F_c}{F_b} = \frac{9.6(1.52)}{30.3} = 0.48$
 $F_a = 8.2$ ksi
 $S_{req} = 55(1.286) = 4.3 \therefore OK$

4x20 STD ROOF PURLIN

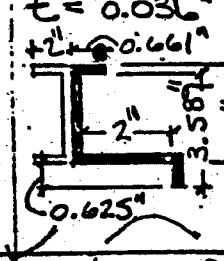
I val (in4) =	6773
S val (in3) =	3386
AREA (in2) =	3093
d val (in) =	2.0000
r val (in) =	1.4798



t = 0.026" (BENDING)
 $w/t_{act} = 37.4$; $w/t_{lim} = 2(2.4) = 50.6$ #F
 $M = 50.6(10^3)/8 = 632$ #F
 $S_{req} = 632(1.2)/30.3 = 0.25$
 $S_{act} = 0.33 \therefore OK$

14x20 STD DOOR HDR w/ C-SECTION ADDED

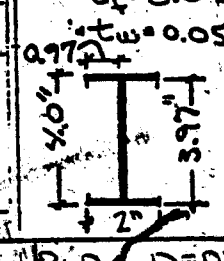
I val (in4) =	7168
S val (in3) =	3811
AREA (in2) =	4757
d val (in) =	1.8816
r val (in) =	1.2275



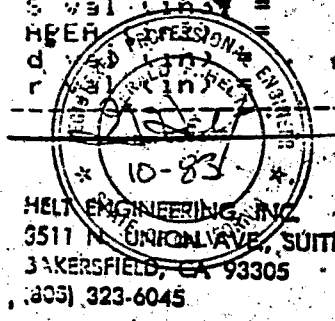
t = 0.036" (BENDING)
 $w/t_{act} = 1.71$; $w/t_{lim} = 2(1.02) = 105$ #F
 $M = 105(8^3)/8 = 840$ #F
 $ADD: 3 \times 2 \times 0.036$ C-SECTION @ HDR
 $S_{req} = 840(1.2)/30.3 = 0.33$
 $S_{act} = 0.38 \therefore OK$

14x20 STD TRUSS COLUMN

I val (in4) =	6748
S val (in3) =	3373
AREA (in2) =	3889
d val (in) =	1.9993
r val (in) =	1.4781



t = 0.026" (COMPRESSION & BENDING)
 $w/t_{act} = 37.3$ $w/t_{lim} = 65.3$
 $Q_{tr} = 42$ $Q = \frac{F_c}{F_b} = \frac{12(1.52)}{30.3(1.52)} = 0.50$
 $F_a = 8.5$; $F_b = 30.3$
 $\frac{37.94}{8500} + \frac{16.3}{30.3} = 0.98 \therefore OK$



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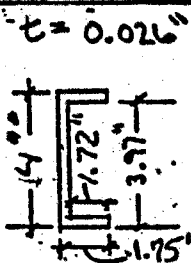
BLDG DEPT NOTE:
 BLDG DEPT UP KIT
 REQUIRED - 20 #F

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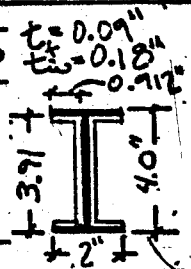
14x20 ARROW BLOC: 15 #/F² WL (HORIZONTAL) SHT 2 OF 3

14x20 STD SIDE WALL CHANNEL	
I val (in ⁴) =	.4911
S val (in ³) =	.2454
AREA (in ²) =	.1934
d val (in) =	1.9991
r val (in) =	1.5933

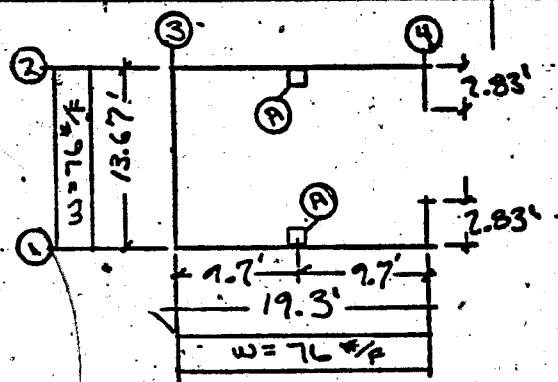


(BENDING)
 $w/t_{web} = 66 : w/f = 15(6.75) = 50.6 \#/F$
 $M = 50.6(10)^2/8 = 633 \text{ Ft}$
 $S_{req} = 633(2)/30.3 = 0.25$
 $S_{act} = 0.25 \text{ (OK) USE MID SPAN STRAP}$

4x20 COLUMN & TRUSS (REINFORCE)	
I val (in ⁴) =	2.2151
S val (in ³) =	1.1075
AREA (in ²) =	1.0483
d val (in) =	2.0000
r val (in) =	1.4536

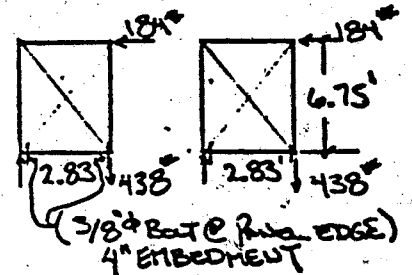


(COMPRESSION & BENDING)
 $w/t = 10.1$ $w/t_{un} = 65.3$
 $A_r = 43 ; Q = f_y = 19 / 30.3 = 0.50$
 $F_a = 8.5$ $F_b = 30.3$
 $\left[\frac{0.69}{8.5} + \frac{24.6}{30.3} \right] = 0.89$
 (0.0625 ADDED)



WIND LOADING @ 15 #/F²
 $w = 15(6.75/2 + 1.7) = 76 \#/F$
 $S_v \textcircled{1} = 76(13.67/2) \left(\frac{1}{19.3} \right) = 26.7 \#/F$
 $S_v \textcircled{2} = S_v \textcircled{1}$
 $S_v \textcircled{3} = 76(9.7/2) \left(\frac{1}{13.67} \right) = 26.7 \#/F$
 $S_v \textcircled{4} = 76(9.7/2) \left(\frac{1}{(2.83)^2} \right) = 65.1 \#/F$
 ANCHOR BOLT = 1/4" φ 4" EMBEDMENT @ 30" O.C.
 (EXCEPT FOR FT. PANELS)

FT PANEL UPLIFT:



COLUMN BOLT @ A
 2-3/8" φ BOLT w/ 4" EMBEDMENT
 FT PANEL SHEAR TEST:
 Panel Yield @ 88.3 #/F
 $3/4(88.3) = 66 \#/F \therefore$ Panel screw @ 20.6

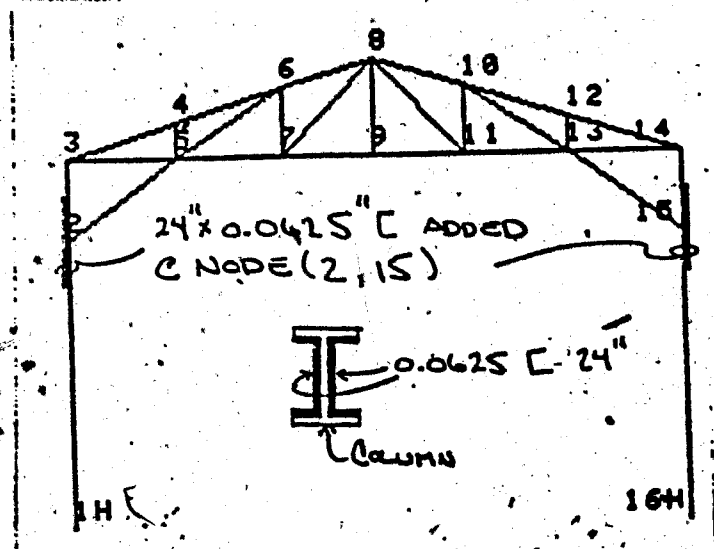
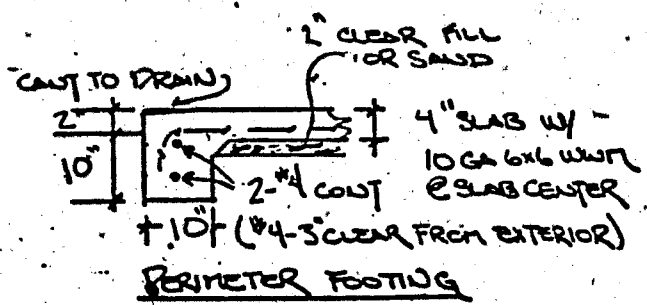
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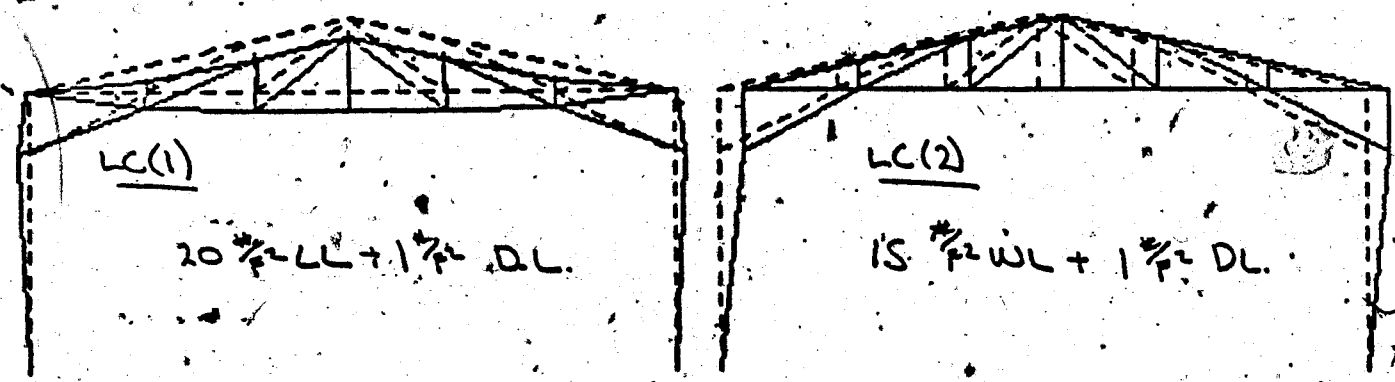
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14x20 ARROW BLDG : (FOUNDATION & DEFLECTION) SHET 3 OF 3
 20 LL + 1 DL

FOUNDATION: SBPA_{ALL} = 4000 #/F²
 REACTION MAY = 1730 # @ TRUSS COLUMN
 $\frac{1730}{(2)(1/2)} = 1038 \#/F^2$



 DEFORMED GEOMETRY



LOAD CASE 1, MAX DISPL. = .019998' = 0.23"
 LOAD CASE 2, MAX DISPL. = .21371' = 2.57"

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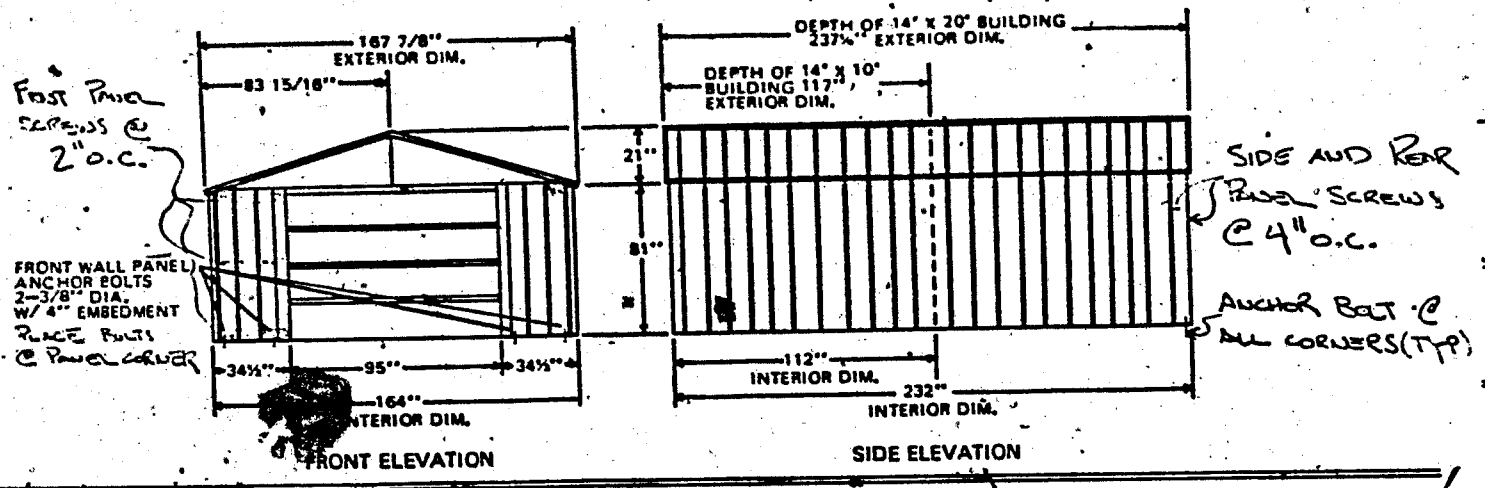
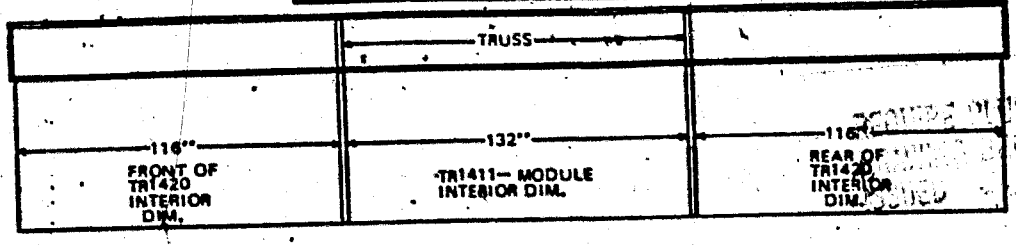
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DESIGN CRITERIA:
w/ BLDG REEF-UP

1979 UBC HELF ENGINEERING
400 TRUXTUN AVE.
20#/F²L.L. BAKERSFIELD, CA.
15#/F²L.L. 1-805-323-6045

NO ELECTRICAL PERMIT WILL BE ISSUED UNTIL LOAD CALC. AND LINE DRAWING SUBMITTED

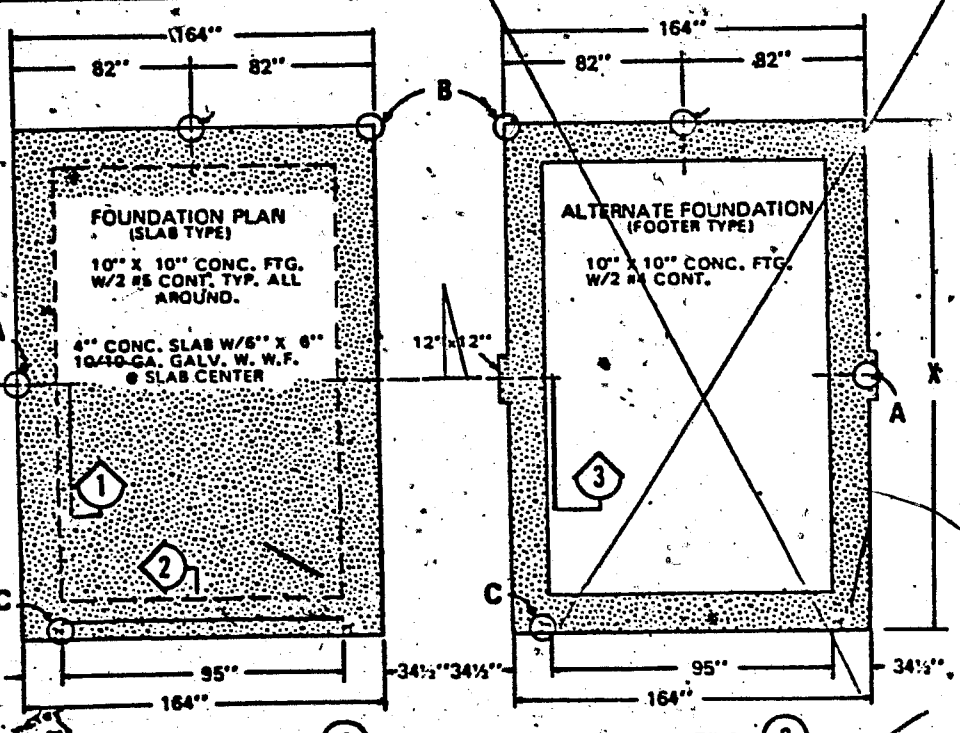


BUILDING	X
14' x 10'	112"
14' x 20'	232"
14' x 30'	364"

FOUNDATION SPECIFICATIONS:

CONCRETE Fc - 2,000 P.S.I.
STEEL REINFORCING Fy - 40,000 P.S.I., A.S.T.M. A-615, GRADE 40 WELDED WIRE FABRIC as per A.S.T.M. A-185. ALL PERIMETER STEEL 3" CLEAR FROM EXTERIOR.
MINIMUM SOIL BEARING CAPACITY - 1,000 P.S.F.
ANCHOR BOLTS - 1/2" DIA. ANCHOR BOLT W/ 4" minimum embedment, or equal, @ 30" C/C.

VERIFY FOUNDATION DEPTH REQUIREMENTS WITH LOCAL BUILDING DEPARTMENT.



NOTE: CONCRETE ANCHOR INSIDE OF MESH

