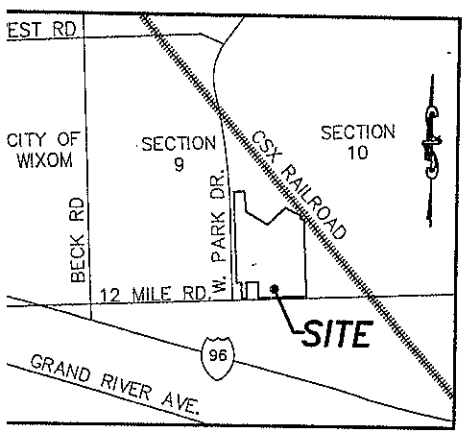


**NOTES:**  
 ROAD COMMISSION FOR OAKLAND COUNTY PERMIT IS REQUIRED FOR ALL WORK WITHIN 12 MILE ROAD RIGHT-OF-WAY.  
 CALL INSPECTOR OR PERMIT SUPERVISOR BEFORE BEGINNING ANY WORK IN R.O.W.  
 "PROPER SIGNING" IS REQUIRED BEFORE ANY WORK IN R.O.W. IS STARTED.  
 MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES.

NOTE:  
 ADDITIONAL DITCHING MAY BE NECESSARY TO OBTAIN POSITIVE DRAINAGE, AS DIRECTED BY R.C.O.C. DURING CONSTRUCTION.

**LEGEND**

--- (dashed)	EXISTING STORM	FF	FINISH FLOOR
--- (solid)	EXISTING WATER MAIN	→	PROP. DRAINAGE ARROW
--- (dash-dot)	EXISTING SANITARY	√TP 40.00	PROP. TOP OF PAVEMENT ELEV.
--- (dotted)	EXISTING GAS	√TC 40.00	PROP. TOP OF CURB ELEV.
□	EX. CATCH BASIN	√GU 40.00	PROP. GUTTER ELEV.
▽	EX. MANHOLE	√TW 40.00	PROP. TOP OF WALK ELEV.
○	EX. END SECTION	√40.00	PROP. SPOT ELEV.
○	SET IRON	940	PROP. CONTOUR
○	EX. GUY WIRE	■	PROP. CATCH BASIN
○	EX. TREE LINE	●	PROP. MANHOLE
○	FD. IRON	▲	PROP. END SECTION
○	EX. MAILBOX	---	PROP. STORM SEWER
○	EX. POWER POLE		
○	EX. SIGN		



**LOCATION MAP:**  
 NOT TO SCALE

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE DESIGNER SHALL BE EXPECTED TO ASSUME ANY LIABILITY FOR SAFETY OF THE WORK, OF PERSONS OR PROPERTY IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AS DISCLOSED BY AVAILABLE UTILITY COMPANY RECORDS. NO WARRANTY IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF A CONFLICT IS APPARENT.



**SITE DATA:**

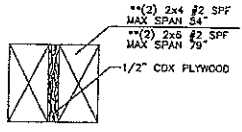
CURRENT ZONING:	I-1 LIGHT INDUSTRIAL
REQUIRED SETBACKS:	40' FRONT 20' EACH SIDE 20' REAR

REVISED	
DATE:	5/10/05
DRAWN BY:	TAG
CHECKED BY:	D.J.L.
SCALE	0 20 40
FRK:	
CHK:	1

<p><b>ALPINE ENGINEERING INC</b></p> <p>46892 WEST ROAD SUITE 108 (248) 926-3701 (BUS) (248) 926-1768 (FAX)</p>	<p><b>RESIDENTIAL</b></p> <p>SUBDIVISIONS          SITE CONDOMINIUM          MULTI-FAMILY          PLOT PLANS          CONSTRUCTION LAYOUT</p>	<p><b>SURVEYING</b></p> <p>ALTA SURVEYS          BOUNDARY SURVEYS          TOPOGRAPHIC SURVEYS          PARCEL SPLITS</p>	<p><b>COMMERCIAL</b></p> <p>SITE PLANNING          SITE ENGINEERING          INDUSTRIAL &amp; MULTI-UNIT          LAND SURVEYING          CONSTRUCTION LAYOUT</p>
	<p>CLIENT: <b>AMSON-DEMBS DEVELOPMENT</b></p> <p><b>SALES TRAILER PLAN</b></p> <p>NOVI CORPORATE CAMPUS</p> <p>SECTION: 9 TOWNSHIP: 1N RANGE: 8E          CITY OF NOVI</p>		

FRAME:  
OUTRIGGER CROSSMEMBER, 48" O.C., OUTRIGGER 48" O.C.  
1 BEAM JR. 1 BEAM, 12" UPGRADE  
NOTCH: REINFORCE / DEMOUNTABLE  
COUPLER: 2 5/8" STANDARD BALL TYPE COUPLER  
(4) ANGLES: 800# ELECTRIC BRACK ANGLE  
TIRES: 8X14.5, 10 PLY RATED

FLOOR:  
BOTTOM BOARD: MOVEN POLYPROPYLENE  
TRANSVERSE JOIST: 2X8, 16" O.C., #2 SPF OR BETTER  
RM JOIST: 2X8, #2 SPF OR BETTER  
REGIONS: SINGLE 3/8" TAG PLYWOOD  
INSULATION: R-19 UNFACED FIBERGLASS  
COVERING: ARMSTRONG 1/8" 12"X12" BLOCK TILE THROUGHOUT  
COLOR: "FORTRESS WHITE"  
COVER: 30 OZ. COMMERCIAL CARPET OVER TILE (DO NOT GLUE) (NO CARPET @ ENTRY OR BATH)  
COLOR: CHOOSE FROM MSC STANDARDS



2x4 WALL HEADER DETAIL  
SCALE: NTS

\*ALL BEAM MAY BE SUBSTITUTED FOR  
NORMAL LUMBER (SAME DIMENSIONS)

EXTERIOR WALLS:  
STUDS: 2x4 16" O.C., STUD GRADE, 8' WALL HEIGHT (088C/80CA)  
TOP PLATE: DOUBLE 2x4 #3 SPF  
BOTTOM PLATE: SINGLE 2x4 #3 SPF  
INSULATION: R-11 KRAFT BACKED FIBERGLASS  
COVERING: 1/4" VINYL COVERED PANELING W/ BATTENS  
COLOR: CHOOSE FROM MSC STANDARDS

EXTERIORS:  
EXT. COVERING: 7/16" LP SMART-PANEL T1-11 SIDING 8" VERTICAL  
COLOR: CHOOSE FROM MSC STANDARDS  
EXT. TRIM: WOOD 1x4  
STAIN: SOLID STAIN OLYMPIC T1-11, 2 COATS  
COLOR: CHOOSE FROM MSC STANDARDS

INTERIOR WALLS:  
STUDS: 2x4 16" O.C., STUD GRADE SPF, 8' WALL HEIGHT (088C/80CA)  
TOP PLATE: DOUBLE 2x4 #3 SPF  
BOTTOM PLATE: SINGLE 2x4 #3 SPF  
WALL FINISHING: WALL FINISHING AS REQUIRED  
COVERING: 1/4" VINYL COVERED PANELING W/ BATTENS  
COLOR: CHOOSE FROM MSC STANDARDS

ROOF:  
ROOF FRAMING: 16" O.C. 40# LIVE LOAD (088C/80CA)  
TRUSSES: COUPED BOW TRUSSES (16"X17"X15"X186") (976,774)  
CEILING: 1/2" PREFINISHED GYPSUM W/ JOINT ADHESIVE  
INSULATION: R-30 KRAFT BACKED FIBERGLASS  
ROOF SHEATHING: 7/16" OSB  
ROOFING: 30 GAUGE GALV. STEEL  
VENTS: GABLE VENTS, PER BLDG. CODE (SEE PLANS)

MANSARD 1 1/2" PROJECTION:  
2" ROOF: 7/16" LP SMART-PANEL T1-11 4" O.C. W/ STANDARD MINI-GUTTER  
MANSARD COLOR: CHOOSE FROM MSC STANDARDS  
MINI-GUTTER: CHOOSE FROM MSC STANDARDS

WINDOWS: (CREATION OR EQUAL)  
(1) 24"X36" VERTICAL SLIDER CLEAR GLASS, "MIL FINISH"  
(2) 24"X36" 1" VINYL MINI-BLENDS, "ALABASTER"  
(3) R.L.S. = 24"X36" 2.53 1/2" @ 27" 10" A.F.F.

EXTERIOR DOORS:  
(1) 3'0"X7'8" STEEL/ALUMINUM WITH 10X10 (S.G.) LITE & SAFETY CHAIN  
(1) PASSAGE LEVER SET  
(1) DEAD BOLT LOCK  
(2) R.L.S. = 37 1/4" X 81"

STOREFRONT GLASS DOOR:  
(1) 3'0"X7'0" STORE FRONT (S.G.) GLASS DOOR W/ LOCK & CLOSER FRAME COLOR: "MIL"  
(1) LOCKS: STORE FRONT CYLINDER LOCKS  
(1) MATERIAL: SNEEP DOOR SFT FOR GLASS DOOR  
(2) R.L.S. = 42 1/2" X 88 1/2"

INTERIOR DOORS:  
(2) 2'0"X6'8" REGAL OAK, HOLLOW CORE W/ PANEL JAMB  
(2) STANDARD LEVER PASSAGESET  
(2) R.L.S. = 38 3/4" X 81 1/2"  
(2) 3'0"X6'8" REGAL OAK, HOLLOW CORE W/ PANEL JAMB  
(2) STANDARD LEVER PASSAGESET  
(2) R.L.S. = 38 3/4" X 81 1/2"  
(1) 3'0"X6'8" REGAL OAK, HOLLOW CORE W/ PANEL JAMB  
(1) STANDARD LEVER PRIVACY LOCKSET  
(2) R.L.S. = 38 3/4" X 81 1/2"

ELECTRICAL:  
(1) PANEL BOX, 200 AMP SINGLE PHASE W/ MAIN BREAKER  
BACKUP: 200V, 3PH, 4W, 3% WYE  
(1) LIGHTS: 2 TUBE, 4 FLUORESCENT DIFFUSED  
(2) LIGHTS: UPGRADE PORCH LIGHT WALL MOUNT (DEC-100)  
(1) RECEPTACLE: 20 AMP, 120V DUPLEX RECEPTACLE (MAX. 3 BRACETS PER CIRCUIT)  
(2) RECEPTACLE: 20 AMP, 120V OF HEDEPT  
(1) RECEPTACLE: 15 AMP, 120V RECEPT FOR HEAT TAPE  
(2) SWITCH: 15A SINGLE POLE SWITCH  
(2) PHONE: EMPTY 2X4 BOX W/ 1/2" EMT CONDUIT STUD THRU FLOOR

PLUMBING:  
SUPPLY LINES: CPVC W/ CEMENTED FITTINGS  
DRAIN LINES: SCHEDULE 40 PVC GRAY WASTE & VENT (MULTIPLE DROPS)  
(1) WATER HEATER: STANDARD & GAS ELECTRIC (SWITCHED)  
(1) MATERIAL: WATER HEATER PAN  
(1) MATERIAL: VACUUM RELIEF VALVE (6, 10, 20 GALLON ONLY)  
(1) WATER CLOSET: PLUMBING ONLY / \*VIOLET BY OTHERS ON SITE  
(1) LAVATORY: 84 WALL HUNG LAVATORY W/ WHITE BLADE FAUCET  
(1) CODE: TEMPERING VALVE  
(1) CODE: INSULATE HOT SUPPLY & DRAIN BELOW LAVATORY  
(1) SINK: 15" STAINLESS STEEL BAR SINK  
(1) GRAB BAR: PAIR, ONE 36" & ONE 48"  
(1) MIRROR: STANDARD 20"X40" WALL MOUNTED  
(1) TOILET PAPER HOLDER

HEATING & AIR CONDITIONING:  
(1) WALLMOUNT HVAC: 4 TON WITH 15 KW HEAT, WALL MOUNT  
(1) THERMOSTAT: FOR STANDARD WALL MOUNT HVAC  
(1) FAN: 100 CFM VENT FAN WITH LIGHT  
HVAC DUCT: FIBERGLASS SUPPLY DUCT W/ ADJUSTABLE 10x10 DIFFUSERS  
HVAC DUCT: FIBERGLASS RETURN DUCT (TRANSFER DUCT ONLY) W/ 14x12 RETURN AIR GRILLS  
(1) GRILLS: 30"X18" RETURN AIR GRILL @ FLEXION WALL  
FLEXION: FLEX WALL FOR A/C RETURN AIR (LINE INSIDE W/ GYPSUM)

FURNITURE AND ACCESSORIES:  
(8) IF SHELF: (2) 4" CLOSET, PAINTED WIRE, 12" DEEP

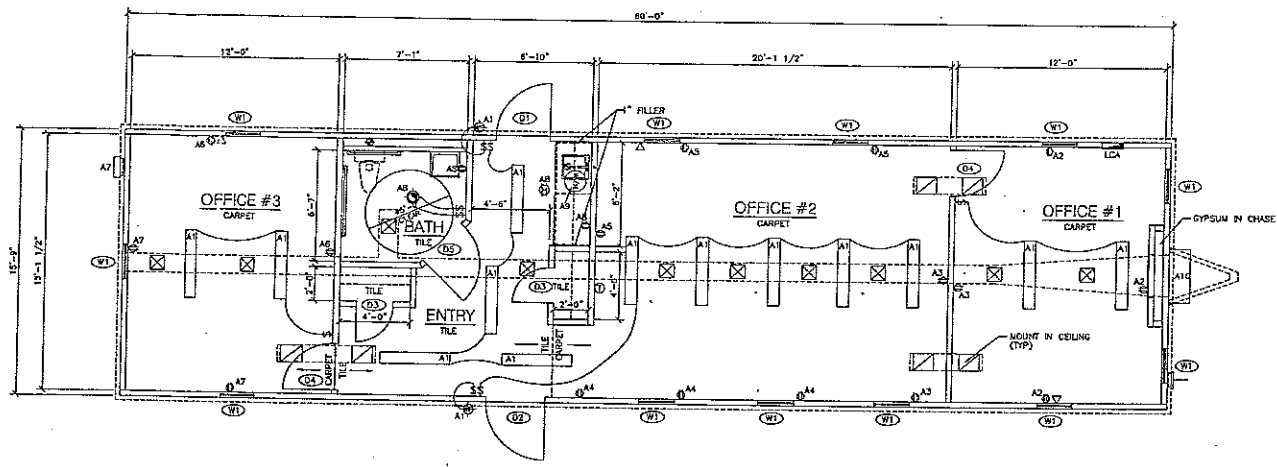
MERILLAT CABINETS:  
(8) 17" BASE CABINETS: "NORTH PORT", COLOR: CHOOSE FROM STANDARDS  
(8) 17" WALL CABINETS: "NORTH PORT" 30" HIGH, 12" DEEP, COLOR: CHOOSE FROM STANDARDS  
(8) 17" 25" HPL COUNTER: W/ BACKPLASH, COLOR: "ALMOND"

INTERIOR TRIM:  
6" WYLL DOME BASE AT BATHROOM  
COLOR: CHOOSE FROM MSC STANDARDS  
STANDARD WINDOW GARNISH  
1 1/2" COLONIAL DOOR CASING (ALL DOORS)  
1 1/2" COLONIAL CASING BASE TRIM  
WOODGRAN PANEL WINDOW & DOOR JAMBS  
1" WYLL COVERED BATTENS EVERY 4" @ INSIDE CORNERS  
WYLL COVERED OUTSIDE CORNERS TRI-MOLD @

SKIPPING:  
\*PROVIDED & INSTALLED @ SITE BY OTHERS

ENGINEERING:  
(1) INDIANA MOBILE SEAL  
(1) MICHIGAN SEAL  
(1) OHIO SEAL  
(1) THIRD PARTY LAB.

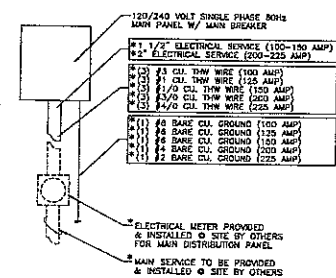
FIELD NOTES  
INDICATES ITEMS TO BE  
INSTALLED @ SITE BY OTHERS



DRAWING LEGEND  
REFER TO SPECIFICATIONS FOR DETAILS

SYMBOL	DESCRIPTION
(Symbol)	LOAD CENTER
(Symbol)	CEILING MOUNTED FLUORESCENT LIGHT FEATURE
(Symbol)	EXTERIOR WEATHERPROOF LIGHT FEATURE, MOUNTED @ 80" A.F.F. (UNLESS NOTED)
(Symbol)	CEILING MOUNT EXHAUST FAN/LIGHT COMBO
(Symbol)	TWIST TYPE SWITCH @ 48" A.F.F. (TO BOTTOM) (UNLESS NOTED)
(Symbol)	DUPLEX RECEPTACLE @ 18" A.F.F. (TO BOTTOM) (UNLESS NOTED)
(Symbol)	3P PROTECTED DUPLEX RECEPTACLE @ 42" A.F.F. (TO BOTTOM) (UNLESS NOTED)
(Symbol)	HEAT TAPE RECEPTACLE LOCATED BELOW UNIT
(Symbol)	J-BOX (2x4) FOR PHONE JACK @ 18" A.F.F. (TO BOTTOM) (UNLESS NOTED)
(Symbol)	NORTH CEILING MOUNTED SUPPLY AIR DIFFUSER W/ ADJUSTABLE AIR DAMPER
(Symbol)	TANK TYPE ELECTRIC WATER HEATER
(Symbol)	MAN DRAIN
(Symbol)	WATER SUPPLY WALET

NOTE:  
1) HORSEPOWER AND/OR FULL LOAD AMPERE RATING VOLTAGE AND PHASE, SHALL BE REQUIRED FOR ALL MOTORS  
2) ELECTRIC SERVICE ENTRANCE PER SECTIONS 230-2 & 230-70A, PROVIDED AND INSTALLED BY SITE CONTRACTOR  
3) SITE CONTRACTOR MAY SUBSTITUTE WIRE TYPES IN CONFORMANCE W/ N.E.C. CODE.  
4) THE MAIN DISTRIBUTION SHALL BE LOCATED ON OR IN A READILY ACCESSIBLE LOCATION ADJACENT TO THE STRUCTURE.  
5) THE MAXIMUM NUMBERS OF DISCONNECTS AND GROUPING OF DISCONNECTS SHALL BE IN CONFORMANCE WITH SECTIONS 230-71 AND 230-72.  
6) MAIN DISTRIBUTION PANEL SHALL BE SIZED A MINIMUM OF THE LOAD INDICATED ON THE ELECTRICAL LOAD CALCULATION.



ELECTRICAL RISER DIAGRAM  
N.T.S.

DATE	REVISION

DATE	REVISION

MANUFACTURED STRUCTURES CORP.  
1684-1/2" 80310  
15'-0" x 60'-0"  
DRAWN BY: JDC  
DATE: 10/23/01  
REVISION NO: 01

1000 N. W. WASHINGTON, N. 48340  
TEL: 800-833-1330  
FAX: 800-833-1330  
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