	GENERAL NOTES		
A.	SEE ALSO: SPECIFICATIONS, SPECIAL NOTES ON DRAWINGS, AND OTHER CONTRACT DOCUMENTS.	Α.	UNLESS OTHE A615, GRADE 6 A706, GRADE 6
B.	DISCREPANCIES - CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND SHALL REPORT ANY DISCREPANCIES IN WRITING TO ENGINEER OF RECORD BEFORE COMMENCING WORK OR ORDERING MATERIALS.	В.	SPLICES SHAL BE LESS THAN
C.	MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE.	C.	MINIMUM CON 1. CONCRE
D.	DETAILS SHOWN ON THE DRAWINGS SHALL BE TYPICAL FOR ALL SIMILAR CONDITIONS. MODIFY DETAILS FOR SPECIAL CONDITIONS AS DIRECTED BY THE ENGINEER.		2. CONCRE AND LAT a. #5
E.	SEE ARCHITECTURAL DRAWINGS FOR CHAMFERS, EDGE RADII, DRIPS, REGLETS, FINISHES, AND OTHER NON-STRUCTURAL ITEMS NOT SHOWN OR SPECIFIED ON STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE IN FEET AND INCHES, UNLESS NOTED OTHERWISE.	B.	b. #6 3. CONCRE BAR BENDS, H RECOMMENDA
	CONSTRUCTION NOTES		<u>CO</u>
A.	THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER AT LEAST 48 HOURS IN ADVANCE FOR REVIEW AND OBSERVATION OF REINFORCING AND CONCRETE POURS.	A.	ALL STANDARI
В.	CONSTRUCTION LOADING SHALL NOT EXCEED THE DESIGN LIVE LOAD UNLESS SPECIAL SHORING IS PROVIDED. ALLOWABLE LOADS SHALL BE REDUCED IN AREAS WHERE THE	B.	UNLESS OTHE 1. VERTICA
C.	STRUCTURE HAS NOT ATTAINED ITS FULL DESIGN STRENGTH. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES,		2. HORIZON
	SEQUENCES, WORKMANSHIP AND JOB SAFETY, INCLUDING FALSEWORK, BRACINGS, MUD SILLS, OTHER TEMPORARY ITEMS USED FOR THE CONSTRUCTION OF THE PROJECT AND PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL	C.	ALL CELLS SH
	PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY REGULATORY AGENCIES	D.	PROVIDE VERT SUBJECT TO E
	EARTHWORK NOTES	E.	REINFORCEME AS FOR CONC
A.	SHALLOW FOUNDATION DESIGN IS BASED ON A BEARING CAPACITY OF 3,000 PSF FOR TYPICAL FOUNDATIONS FOUNDED ON DENSE FILL.	F.	CONCRETE BL OTHERWISE SI
В.	CLEAN AND MOISTEN FOOTING TRENCHES PRIOR TO POURING CONCRETE. WHERE SHRINKAGE CRACKS ARE NOTED AFTER COMPACTION OF THE FOOTING SUBGRADE, THE SOIL SHALL BE MOISTENED TO CLOSE ALL CRACKS.	G.	ALL CONCRET PLANS, CONFO COMPRESSIVE
C.	ALL FOOTING EXCAVATIONS, FILL AND BACKFILL OPERATIONS SHALL BE MONITORED BY AND APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF ANY REINFORCING STEEL OR CONCRETE. CONTRACTOR SHALL MAKE APPROPRIATE ARRANGEMENTS FOR OBSERVATIONS A MINIMUM OF 48 HOURS IN ADVANCE.	Н.	MORTAR SHAL
		l.	GROUT SHALL
		J.	FOR PENETRA
	STRUCTURAL STEEL NOTES		
Α.	UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL MEMBERS, BOLTS, ANCHOR BOLTS, SHALL CONFORM TO:	A.	STRUCTURAL STANDARDS P
	1.ANGLES, PLATES, CHANNELS, RODS:ASTM A362.BOLTS:ASTM A3073.ANCHOR BOLTS:ASTM F1554		1. 1/2" ROOF SI 2. 1/2" WALL SI
В.			
	WELDING, WHETHER SHOP OR FIELD, SHALL BE BY CERTIFIED WELDERS ONLY.		ALL PLYWOOD
C.	WELDING ELECTRODES SHALL BE GRADE E-70XX IN ACCORDANCE WITH AWS D1.1.	В.	ALL PLYWOOD EDGE BLOCKIN MINIMUM FAST
C. E.		В.	ALL PLYWOOD EDGE BLOCKIN MINIMUM FAST
	WELDING ELECTRODES SHALL BE GRADE E-70XX IN ACCORDANCE WITH AWS D1.1. ALL STRUCTURAL STEEL SURFACES SHALL BE HOT-DIP GALVANIZED. UNLESS OTHERWISE SHOWN, ALL EMBEDDED BOLTS, ANCHORS, PLATES, INSERTS, ETC. SHALL	B.	ALL PLYWOOD EDGE BLOCKIN MINIMUM FAST 1. ROOF PLYW
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E. A. B.	 WELDING ELECTRODES SHALL BE GRADE E-70XX IN ACCORDANCE WITH AWS D1.1. ALL STRUCTURAL STEEL SURFACES SHALL BE HOT-DIP GALVANIZED. UNLESS OTHERWISE SHOWN, ALL EMBEDDED BOLTS, ANCHORS, PLATES, INSERTS, ETC. SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS, AND A MAXIMUM WATER/CEMENT RATIO OF 0.50 AND A MAXIMUM AGGREGATE SIZE OF 3/4". ALL LIGHT-WEIGHT CELLULAR CONCRETE USED FOR BACKFILL SHALL HAVE A MAXIMUM UNIT WEIGHT OF 45 PCF AND MINIMUM COMPRESSIVE STRENGTH OF 80 PSI AT 28 DAYS. USE MIX NUMBER 011L35CN BY ISLAND READY MIX OR AN APPROVED EQUAL. ADMIXTURES MAY BE USED AS CONTRACTORS OPTION, BUT SUBJECT TO ENGINEERS APPROVAL. 	C. D. E. F.	ALL PLYWOOD EDGE BLOCKIN MINIMUM FAST 1. ROOF PLYWO 2. WALL PLYWO 2. WALL PLYWO PROVIDE MINIM SCREWS SHAL DRIVEN THRU LAY ALL ROOF PANELS SHALL MAXIMUM MOIS ONE LAYER OF WOOD FROM C ALL TIMBER SHALL

REINFORCING STEEL NOTES

ERWISE NOTED ON PLANS, ALL REINFORCING BARS SHALL BE ASTM 60. WHERE WELDING OF REINFORCING STEEL IS REQUIRED. ASTM 60 SHALL BE USED.

L BE IN ACCORDANCE WITH ACI 318-14. SPLICE LENGTH SHALL NOT V 48 BAR DIAM. OR 24", WHICHEVER GREATER. STAGGER SPLICES.

ICRETE CLEAR COVER:

CRETE POURED AGAINST EARTH	3"
CRETE POURED AGAINST FORMS	
LATER EXPOSED TO WEATHER OR GROUND	
#5 BAR OR SMALLER	1 1/2"
#6 BAR OR LARGER	2"
CRETE NOT EXPOSED TO WEATHER OR GROUND	1 1/2"

IOOKS, AND OFFSETS SHALL BE IN ACCORDANCE WITH THE ACI ATIONS.

DNCRETE MASONRY (CMU) NOTES

D UNITS SHALL BE 2-CELL TYPE UNLESS OTHERWISE SHOWN.

- RWISE SHOWN, REINFORCING STEEL IN CMU WALLS SHALL BE: AL BARS: #5 AT 16" O.C. WITH ADDED BARS AT WALL ENDS WITH BARS AT ENDS. CORNERS AND INTERSECTIONS.
- NTAL BARS: #5 AT 24" O.C. AND ADDED #5 AT TOP OF WALLS REINFORCING SHALL BE CONTINUOUS AROUND ALL CORNERS AND INTERSECTIONS.
- IALL BE SOLIDLY FILLED WITH GROUT.
- TICAL CONTROL JOINTS IN WALLS AT 60 FEET MAXIMUM O.C. NGINEER'S REVIEW AND APPROVAL.
- ENT GRADE, BAR BENDS, DETAILS, LAPS, ETC. SHALL BE THE SAME RETE.
- LOCK UNITS SHALL BE LAID IN RUNNING BOND PATTERN UNLESS PECIFIED AND/OR SHOWN.
- TE MASONRY UNITS SHALL BE MODULAR, SIZE AS INDICATED ON ORMING TO ASTM C90, GRADE N1-II AND HAVE AN ULTIMATE STRENGTH, f'm = 2,000 PSI.
- L CONFORM TO ASTM C270, TYPE M, 2,500 PSI.
- _ CONFORM TO ASTM C476 WITH A MINIMUM STRENGTH OF 2,000 PSI.
- TIONS IN EXISTING CMU WALLS, SEE DETAIL 2/S-004.

TIMBER NOTES

PLYWOOD SHALL BE DOUGLAS FIR CONFORMING TO COMMERCIAL PSI-95. PLYWOOD SHALL BE:

HT'S STRUCTURAL I, 4-PLY, C-C, EXT. HT'S STRUCTURAL I, 4-PLY, C-C, EXT.

SHALL BEAR THE STAMP OF AN APA CERTIFIED MILL PLYWOOD. CLIPS OR NG SHALL BE USED WHERE PLYWOOD IS SQUARE EDGED.

#8 AT 6" AT O.C. AT PANEL EDGES AND
DIAPHRAGM BOUNDARIES
#8 AT 12" AT O.C. AT INTERMEDIATE FRAMING
#8 AT 6" AT O.C. AT PANEL EDGES AND
DIAPHRAGM BOUNDARIES
#8 AT 12" AT O.C. AT INTERMEDIATE FRAMING

MUM OF 1/8" GAP BETWEEN PANEL EDGES.

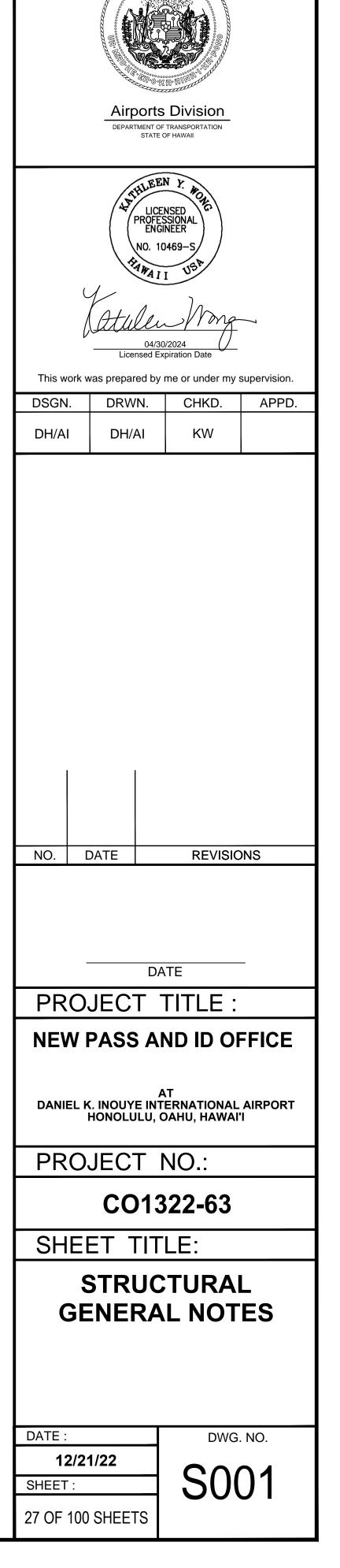
- LL HAVE A MINIMUM OF 3/8" EDGE DISTANCE AND SHALL NOT BE OVER OUTER FACE.
- F SHEATHING WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTS. ALL BE STAGGERED.
- ISTURE CONTENT FOR ALL TIMBER SHALL BE 19 PERCENT.
- 15 LB ASPHALT SATURATED ROOFING FELT SHALL BE APPLIED TO ISOLATE CONTACT WITH ALL CONCRETE AND MASONRY SURFACES.
- HALL BE PRESSURE TREATED.
- RS SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL.
- IECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE OR QUAL.

COLD-FORMED METAL FRAMING NOTES

- A. LIGHT GAUGE, COLD FORMED STEEL MEMBERS ARE TO BE MANUFACTURED BE A MEMBER OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA). ALL MEMBERS ARE DESIGNATED PER SSMA STANDARDS.
- ALL LIGHT GAGE METAL FRAMING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AISI B. "SPECIFICATIONS FOR DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", AND ASTM A1003, LATEST EDITION.
- MEMBERS ARE TO COMPLY WITH ICC EVALUATION REPORT NO. 4943P. C.
- D. MEMBERS ARE TO BE GALVANIZED IN ACCORDANCE WITH ASTM A525.
- E. SHOP DRAWINGS SUBMITTALS SHALL BE ACCOMPANIED BY MANUFACTURER'S PRODUCT INFORMATION AND OTHER DATA NEEDED TO VERIFY COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- UNLESS OTHERWISE NOTED, ALL LIGHT-GAGE METAL FRAMING SHALL CONFORM WITH THE FOLLOWING:
 - GALVANIZED STUDS (10 16 GAUGE) ASTM A653, GRADE 50, G90 COATING 1.
 - 2. GALVANIZED STUDS (18 OR 20 GAUGE) ASTM A653, GRADE 33, G90 COATING
 - GALVANIZED TRACK, END CLOSURES, ASTM A653, GRADE 50, G90 COATING 3. BRIDGING AND ACCESSORIES
- G. LIGHT-GAGE FRAMING SHALL BE THE SIZE AND GAUGE INDICATED ON THE DRAWINGS.
- H. ALL SHEET METAL SCREWS SHALL PROTRUDE A MINIMUM OF 1/4" THRU METAL FRAMING
- SPLICES IN FRAMING MEMBERS SHALL NOT BE PERMITTED.
- ALL WALL STUDS SHALL HAVE SSMA STANDARD PUNCHOUTS AT 24" SPACING, UNLESS OTHERWISE NOTED.
- FLAME CUTTING OF THE ENDS OF LOAD BEARING STUDS SHALL NOT BE PERMITTED.
- ALL DOUBLE STUDS SHALL BE SOLID BLOCKED AT MID HEIGHT.
- M. PROVIDE END BLOCKING AT ALL JOIST ENDS.
- N. PROVIDE FULL HEIGHT, SQUARE CUT, FULL CONTACT BEARING WEB STIFFENERS, OF THE SAME THICKNESS AND DEPTH AS THE FRAMING MEMBER AT EACH SUPPORT.
- MEMBERS SHALL BE VISUALLY CHECKED FOR CRACKS IN THE STEEL, MEMBERS WITH О. CRACKS SHALL NOT BE USED. MEMBERS WITH SURFACE RUST ON THE GALVANIZED FINISH AND/OR SCALING RUST ON THE CUT ENDS OF THE MEMBER SHALL NOT BE USED.
- ACCESSORIES: PROVIDE ALL ACCESSORIES INCLUDING BUT NOT LIMITED TO TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED.

EPOXY ANCHOR BOLT ADHESIVE

- EPOXY ANCHOR BOLT ADHESIVES SHALL BE TWO-COMPONENT HIGH-SOLIDS, EPOXY BASED SYSTEM SUPPLIED SUPPLIED THROUGH A MIXING NOZZLE PROVIDED BY THE MANUFACTURER. THE ADHESIVE ANCHOR SHALL HAVE BEEN TESTED AND QUALIFIED FOR PERFORMANCE IN UNCRACKED CONCRETE, CRACKED CONCRETE OR MASONRY (WHICHEVER IS APPLICABLE) IN ACCORDANCE WITH ICC-ES.
- THE ADHESIVE SHALL BE DESIGNED FOR SEISMIC APPLICATIONS. В.
- ALL MANUFACTURERS PREPARATION, INSTALLATION AND SETTING PROCEDURES C. SHALL BE FOLLOWED IN STRICT ACCORDANCE.



	SPECIAL INSPECTION NOTES		
A.	SPECIAL INSPECTION PROVISIONS OF CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE GOVERNS PORTIONS OF THE STRUCTURAL WORK AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTOR SHALL BE HIRED BY THE OWNER.		
В.	THE MINIMUM RESPONSIBILITIES OF THE SPECIAL INSPECTOR SHALL BE OUTLINED IN THE "SPECIAL INSPECTION RECOMMENDED STANDARD OF PRACTICE", 2ND EDITION, PUBLISHED BY THE STRUCTURAL ENGINEERS ASSOCIATION OF HAWAII.		
C.	IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE SPECIAL INSPECTOR FOR ALL ITEMS REQUIRING SPECIAL INSPECTION A MINIMUM OF 48 HOURS IN ADVANCE.		
D.	SPECIAL INSPECTIONS DO NOT RELIEVE THE GENERAL CONTRACTOR OF HIS RESPONSIBILITIES TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND TO BE RESPONSIBLE FOR THE SAFETY OF THE JOB SITE.		
E.	THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT TO THE BUILDING DEPARTMENT, ARCHITECT, STRUCTURAL ENGINEER AND OWNER STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF HIS/HER KNOWLEDGE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE.		
F.	THE SPECIAL INSPECTOR SHALL BE CERTIFIED AS A SPECIAL INSPECTOR BY THE BUILDING DEPARTMENT OF THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO).		
G.	THE FOLLOWING STRUCTURAL WORK FOR THIS PROJECT REQUIRE SPECIAL INSPECTIONS AS		
	NOTED BELOW: 1. CONCRETE AND CONCRETE REINFORCING STEEL FOR:		
	a. WALL FOOTINGS 2. BOLTS AND EMBEDS INSTALLED IN CONCRETE		
	3. REINFORCED CONCRETE MASONRY (CMU BLOCK)		
	4. EXPANSION ANCHORS AND ADHESIVE BOLT, BAR OR DOWEL INSTALLATION		
	DESIGN DATA		
Α.	BUILDING RISK CATEGORYII		
В.	LIVE LOADS: 1. OFFICES (50 PSF + 15 PSF PARTIONS)65 PSF		
	2. ROOF LIVE LOAD20 PSF		
C.	SUPERIMPOSED DEAD LOADS:		
	 MECHANICAL, ELECTRICAL, PLUMBING4 PSF CEILING3 PSF 		
D.	SEISMIC LOADS:		
	RISK CATEGORYII SEISMIC IMPORTANCE FACTOR		
	3. SEISMIC SITE CLASSD (ASSUMED)		
	5. S10.164		
	6. Sds0.511 7. Sd10.249		
	8. SEISMIC RESISTING SYSTEM: LIGHT FRAME (COLD-FORMED STEEL) WALLS		
	SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE		
	 9. RESPONSE MODIFICATION FACTOR, R6.5 10. SYSTEM OVERSTRENGTH FACTOR		
	11. DEFLECTION AMPLIFICATION FACTOR4.0		
	12. SEISMIC DESIGN CATEGORYD		
E.	WIND LOADS: 1. RISK CATEGORYII		
	2. BASIC WIND SPEED131 MPH		
	 WIND IMPORTANCE FACTOR1.0 WIND EXPOSUREC 		
	5. ENCLOSED BUILDING		
F.	FOUNDATION PARAMETERS - PER HNL INTERIM CAR RENTAL FACILITY RECORD		
	DRAWINGS DATED APRIL 10, 2017, PER "FOUNDATION INVESTIGATION, CONSOLIDATED RENTAL CAR FACILITY - HONOLULU INTERNATIONAL AIRPORT:		
	HONOLULU, HI" BY HIRATA AND ASSOCIATES, INC. DATED OCTOBER 28, 2010: 1. SHALLOW FOUNDATION BEARING CAPACITY3,000 PSF		
	1. SHALLOW FOUNDATION BEAKING CAPACITY		
	STANDARDS AND REFERENCES		
A.	INTERNATIONAL BUILDING CODE, INTERNATIONAL CODE COUNCIL, 2018 EDITION		
В.	AS AMENDED BY STATE OF HAWAII. ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.		
в. С.	ACI 318-14, AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS		
D.	FOR STRUCTURAL CONCRETE. AISC 360-16, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, SPECIFICATION FOR		
	STRUCTURAL STEEL BUILDINGS.		
E.	AWS D1.1 - 2017, STRUCTURAL WELDING CODE - STEEL		
F.	TMS 402-16/TMS 602-16, BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES.		

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		322-63			
SHEET TITLE: STRUCTURAL GENERAL NOTES					
DATE : 12/2 SHEET : 28 OF 100		Dwg.			