

GENERAL

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF ALL RELEVANT CODES AND STANDARDS.
- CONFORM TO OWNER'S GENERAL SPECIFICATIONS INCLUDING ALL SAFETY REQUIREMENTS.
- SITE VERIFY ALL DIMENSIONS AND LEVELS.
- KEEP THE SITE THROUGHOUT THE WORK AREA IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES TO THE SATISFACTION OF THE OWNER.
- ALL STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER CONSULTANT'S DRAWINGS.
- CONTRACTOR SHALL REMOVE ALL LOOSE/UNSUITABLE FILL MATERIAL AND DISPOSE TO AN APPROPRIATE LANDFILL AS NECESSARY TO ACCOMMODATE THE NEW PAD AND SUB-BASE PROFILE.
- THE LATEST EDITION OF ALL CODES AND STANDARDS SHALL BE USED.

CONCRETE REINFORCEMENT

- THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND SURFACE OF CONCRETE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

LOCATION	CLEAR COVER
SLABS	25mm TOP BARS 25mm BOTTOM BARS
SURFACE IN CONTACT WITH GROUND	75mm

- DETAIL REINFORCING STEEL IN ACCORDANCE WITH "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" LATEST EDITION.
- REINFORCING BAR SPLICES FOR DEFORMED BARS:
COLUMNS – COMPRESSION LAP UNLESS NOTED
WALLS – CLASS 'B' TENSION SPLICE UNLESS NOTED
ALL OTHERS – CLASS 'B' TENSION LAP UNLESS NOTED
- ALL REINFORCING STEEL SHALL BE DEFORMED HARD GRADE BILLET STEEL CONFORMING TO CSA G30.18 GRADE 400.
- WELDED STEEL WIRE FABRIC, PLAIN TYPE CONFORMING TO ASTM A1064/A1064M-17 IN FLAT SHEETS NOT ROLLED.
- ALL CONCRETE REINFORCEMENT MUST BE PROPERLY CHAIRED WITH APPROVED BAR SUPPORTS.
- PROVIDE CHAIRS, SPACER BARS, SUPPORT BARS AND OTHER ACCESSORIES TO SUPPORT REINFORCING IN ACCORDANCE WITH THE LATEST EDITIONS OF CSA A23.1 AND CSA A23.3 CHAIRS TO BE PLASTIC, PLASTIC TIPPED OR CONCRETE. ALL TIE WIRE, CHAIRS AND BAR SUPPORTS USED FOR COATED REINFORCING SHALL BE NON-METALLIC OR PROTECTED WITH ACCEPTABLE COATING.
- CHAIRS SHALL BE SPACED AT 1200mm O.C. MAXIMUM.

ASPHALT PAVING

PROTECTION

- PROTECT WORK OF ALL TRADES AND ADJACENT PROPERTIES FROM DAMAGE FROM THE WORK OF THIS SECTION. BARRICADE PAVED AREAS TO PREVENT VEHICLE TRAFFIC FOR AT LEAST 24 HOURS AFTER COMPLETION.

QUALITY ASSURANCE

- ALL WORK OF THIS SECTION SHALL BE COMPLETED BY A BONAFIDE ROAD BUILDING CONTRACTOR ENGAGED IN PAVING WORK FOR A MINIMUM OF 5 YEARS AND HAVING ALL EQUIPMENT NECESSARY TO COMPLETE THE WORK AS SPECIFIED.

INSPECTION AND TESTING

- THE OWNER SHALL APPOINT AN INDEPENDENT INSPECTION AND TESTING COMPANY.
- THE INSPECTION AND TESTING COMPANY SHALL PERFORM THE FOLLOWING SERVICES:
 - SAMPLE PROPOSED SOURCES OF FILL MATERIALS AND ADVISE AS TO ACCEPTABILITY, MAXIMUM DENSITIES OBTAINABLE AND COMPACTION PROCEDURES.
 - CARRY OUT DENSITY TESTS TO ENSURE THAT THE REQUIRED DENSITY ACHIEVED, AND REPORT THE RESULTS OF SUCH TESTS IN WRITING.
- THE COST OF EMPLOYING THE INSPECTION AND TESTING COMPANY SHALL BE PAID FOR BY THE OWNER.

PART 2: PRODUCTS

ENGINEERED FILL

- COMPACTED GRANULAR 'B' BACKFILL OR OTHER SUITABLE FILL AS APPROVED BY THE CONSULTANT TO THICKNESS REQUIRED TO BRING SUBGRADE TO LEVEL OF UNDERSIDE OF GRANULAR 'B' BASE COURSE.

GRANULAR BASE MATERIALS

- GRANULAR 'A' BASE COURSE: CLASS 'A' MATERIAL CONFORMING TO OPSS DIVISION 10, LATEST EDITION.
- GRANULAR 'B' BASE COURSE: CLASS 'B' MATERIAL CONFORMING TO OPSS DIVISION 10, LATEST EDITION.

ASPHALT MATERIALS

- ASPHALT CEMENT: ASPHALT CEMENT SHALL BE PERFORMANCE GRADED ASPHALT CEMENT ACCORDING TO OPSS 1101.
- AGGREGATES: AGGREGATES SHALL BE ACCORDING TO OPSS 1003.
- ASPHALT BASE COURSE: DENSE GRADED, HOT MIXED, HOT LAD ASPHALT FOR USE AS A BINDER COURSE FOR LOW VOLUME ROADS. HL-8 CONFORMING TO OPSS 1150.
- ASPHALT SURFACE COURSE: HOT MIXED, HOT LAD DENSE-GRADED SURFACE COURSE MIX FOR INTERMEDIATE VOLUME ROADS WITH A MAXIMUM AGGREGATE SIZE OF 16mm. HL3 CONFORMING TO OPSS 1150.
- EMULSIFIED ASPHALT: OPSS FORM 1010 OR MTO PRIMER.
- SILICONE, WHEN ADDED TO THE ASPHALT CEMENT, SILICONE SHALL BE LESS THAN FIVE PARTS PER MILLION OF ASPHALT CEMENT.

FLOATING CONCRETE SLAB FOUNDATION

- THE FOUNDATIONS FOR THIS SLAB IN NOT BELOW THE REQUIRED FROST DEPTH FOR THIS GEOGRAPHIC LOCATION. MOVEMENT DUE TO FROST ACTION BELOW THIS SLAB COULD OCCUR. BARRY BRYAN ASSOCIATES ARE NOT CERTIFYING THAT HEAVING AND /OR SETTLEMENT WILL NOT OCCUR. THE OWNER MUST ACCEPT THE POSSIBILITY THAT MOVEMENT AND/OR SERVICE ABILITY CRACKS WILL OCCUR.
- METHODS FOR REDUCING FROST ACTION INCLUDE GOOD SURFACE DRAINAGE AWAY FROM THE SLAB AND THE SUB-GRADE MATERIAL MUST BE FREE DRAINING TO KEEP UNDERLYING SOILS DRY.
- REMOVE ALL EXISTING ASPHALT AND ENGINEERED FILL TO ACCOMMODATE THE NEW CRUSH STONE FILL LAYER. PLACE THE NEW CLEAR CRUSH STONE ON EXISTING GRANULAR 'B' FILL MATERIAL COMPACTED TO 98% SPMD.
- PROVIDE A WOVEN GEOTEXTILE LAYER BETWEEN THE CLEAR CRUSH STONE AND EXISTING COMPACTED FILL TO REMAIN.
- IT IS RECOMMENDED THAT A GEOTECHNICAL ENGINEER BE CONSULTED TO REVIEW THE EXISTING SUBSURFACE MATERIALS AND CONFIRM METHODS FOR REDUCING RISK ASSOCIATED WITH FROST MOVEMENT. THIS MAY INCLUDE THE ADDITION OF FREE DRAINING MATERIAL SUCH AS CLEAR STONE, INSTALLATION OF SUBDRAIN SYSTEM AND/OR INSULATION TO BE USED AS FROST PROTECTION.

CONCRETE

- CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF CAN/CSA-A23.1 AND CAN/CSA-A23.3 WITH THE FOLLOWING PROVISION:

LOCATION	DESIGN STRENGTH (28 DAYS)	SLUMP	EXPOSURE CLASS
EXTERIOR SLAB ON GRADE	32 MPa	80± 30	C1

- NO ADDITIONAL WATER SHALL BE ADDED AT THE JOB SITE. CONCRETE WHICH HAS BEEN WATERED OR DOES NOT MEET SPECIFICATIONS SHALL BE REJECTED.
- DURING WINTER WEATHER BELOW 5°C PROVIDE TEMPORARY HEATING OF CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS OF CSA A23.1, LATEST EDITION.
- STRUCTURAL GROUT SHALL BE NON-SHRINK, NON-METALLIC M-BED STANDARD PREMIX BY SIKa OR APPROVED EQUAL.
- WHEN PIPES, CONDUITS, OR SLEEVES ARE REQUIRED TO PENETRATE CONCRETE ASSEMBLIES, THE FOLLOWING SHALL BE OBSERVED:
 - SPACING OF SUCH ITEMS SHALL BE 3x DIAMETER C/C.
 - CONCRETE SHALL NOT BE PENETRATED WITHIN 600mm OF CONCENTRATED LOADS.
 - ANY PENETRATIONS SHALL BE A MINIMUM OF 600mm FROM ALL EDGES, SUCH AS ENDS AND TOPS OF WALLS.
 - FOR ANY PENETRATIONS GREATER THAN 300mm, CONSULT THE ENGINEER FOR REVIEW AND DETERMINATION OF EXTRA REINFORCEMENT REQUIREMENTS.

LINTEL SCHEDULE

MARK	SIZE	REMARKS
L1	(2)-L89x76x9.5	PROVIDE MINIMUM 200mm THICK SOLID BEARING MASONRY BELOW LINTEL. MINIMUM 152mm BEARING LENGTH ON EACH END. OPENING TO BE LOCATED MINIMUM 3 COURSES BELOW UNDERSIDE OF SLAB UNLESS APPROVED BY STRUCTURAL ENGINEER.
L2	(2)-L152x89x9.5	MINIMUM 152mm BEARING LENGTH ON EACH END. GROUT COURSES BELOW BEARING ENDS SOLID.

REINSTATE CONCRETE PAVEMENT AROUND DISTURBED AREA TO MATCH EXISTING PRIOR TO COMPLETION OF WORK. SLOPE PAVEMENT AWAY FROM NEW PAD AND BLEND WITH EXISTING.

PROVIDE TEMPORARY L127x127x9.5 REGLET ANGLE EACH SIDE PRIOR TO BLOCK REMOVAL FOR LINTEL INSTALLATION (TYP.)

BREAK OUT BEAM POCKET TO FACILITATE LINTEL INSTALLATION. GROUT WALL SOLID AT U/S OF BASEPLATE. GROUT BEAM POCKET SOLID AND MAKE GOOD (TYP.)

COORDINATE WITH MECHANICAL CONSULTANT TO CENTRALIZE BASEPLATES ON CENTER OF SLAB THICKENING (TYPICAL)

BOLLARDS. REFER TO TYPICAL DETAIL 3/S201. COORDINATE BOLLARD LOCATIONS WITH PROJECT MANAGER AND DSSB ON SITE.

DIMENSIONS AND POSITION OF PAD SHALL SUIT SITE CONDITIONS AND ARE THIS CONTRACTORS RESPONSIBILITY. COORDINATE WITH ALL OTHER TRADES, DSSB AND ENGINEER.

203mm FLOATING CONCRETE SLAB C/W 15M @ 305mm B.E.W.

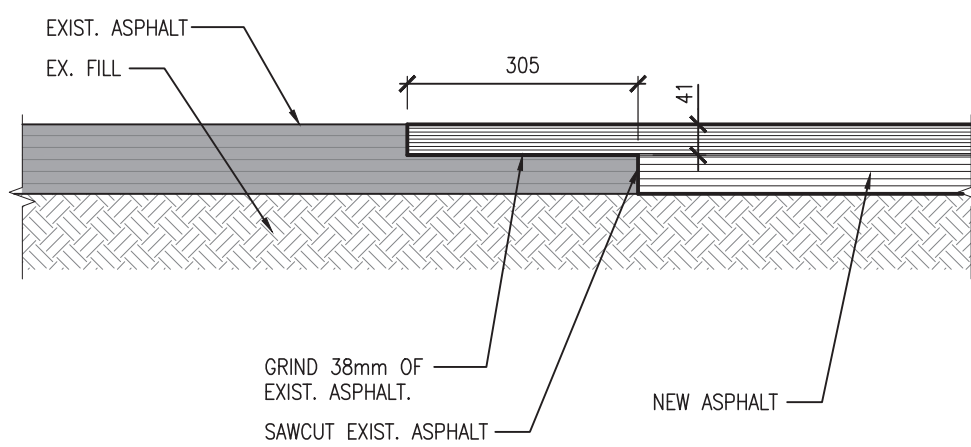
NEW FENCE.

PERIMETER SLAB THICKENING. SEE SECTION.

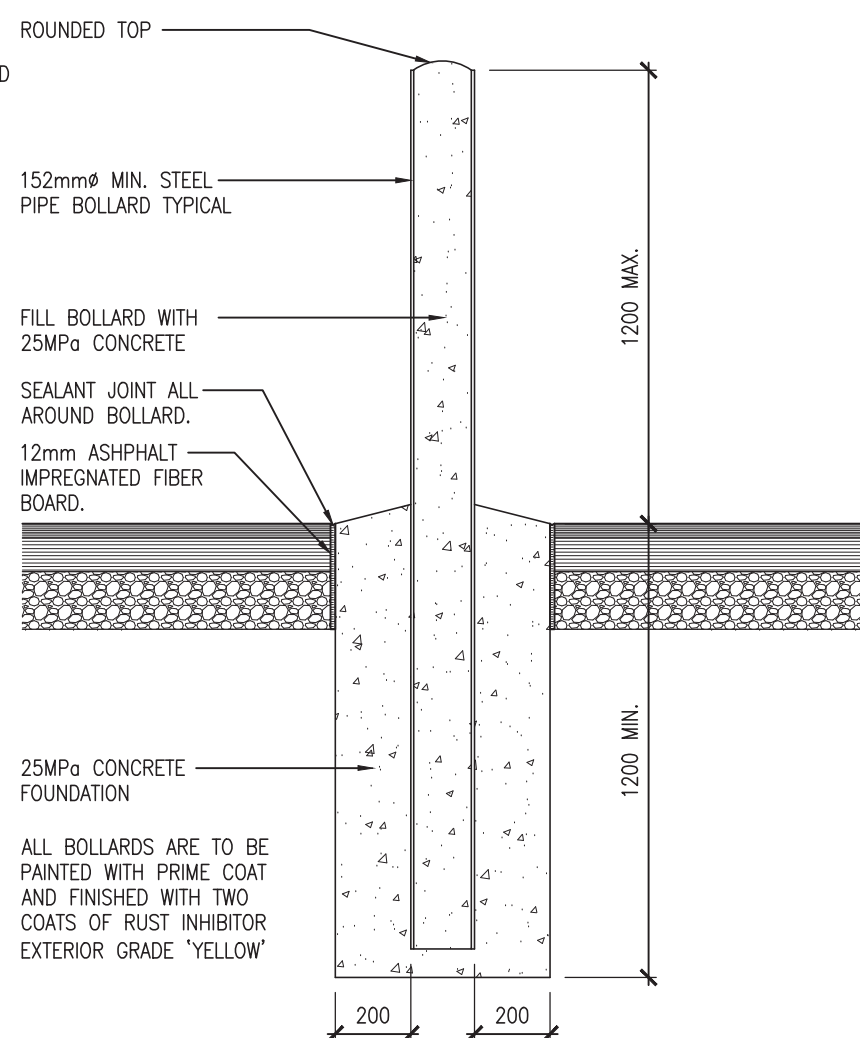
15M CORNER DOWELS TO LAP EACH TOP AND BOTTOM BARS (TYP. U.N.C.) @ THICKENING.

ENGINEERED CONCRETE PAD FOUNDATION.

5 TYP. CORNER LAP BAR DETAIL
S201 N.T.S.

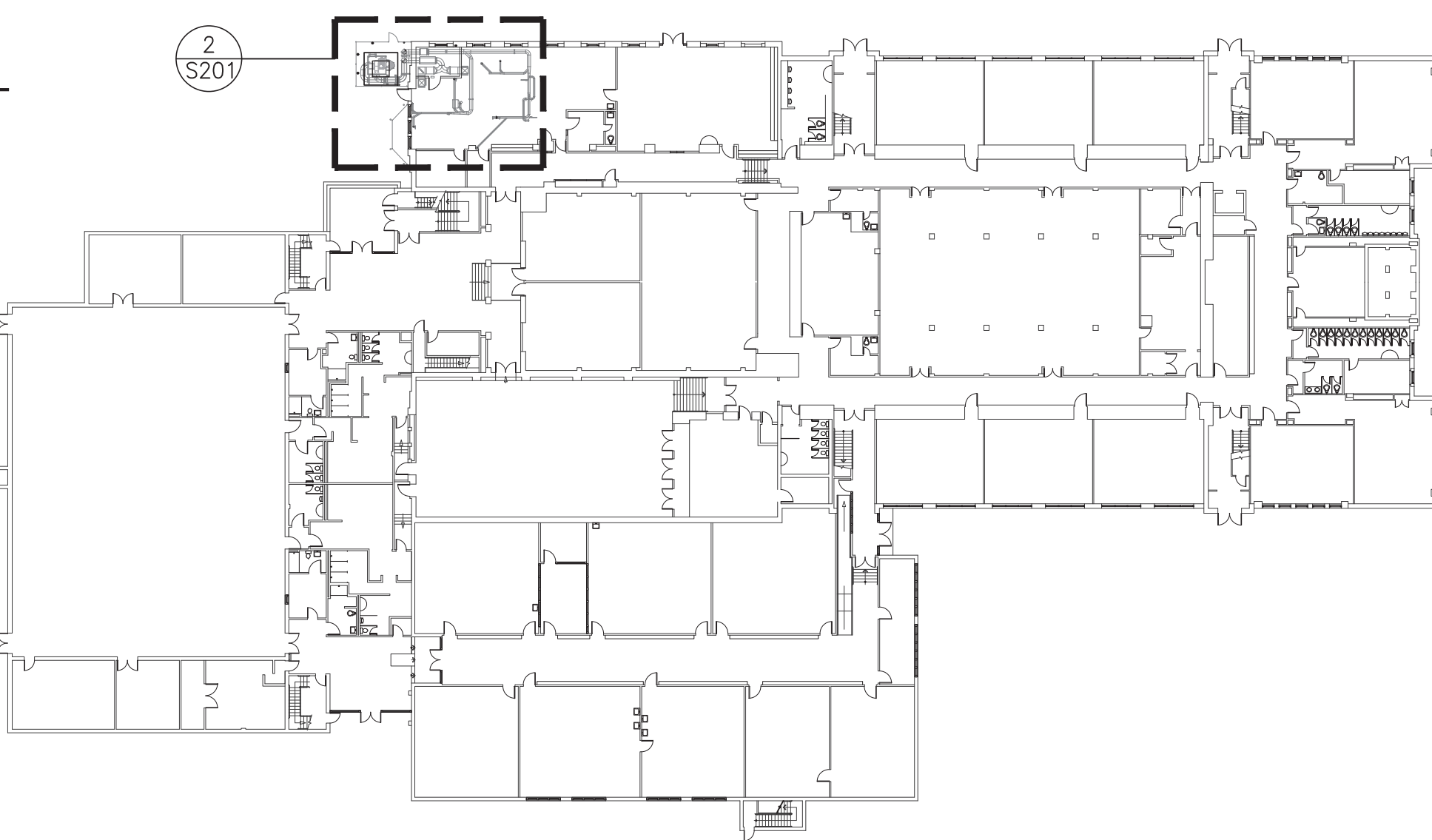


4 TYPICAL ASPHALT JOINT DETAIL
S201 1:10



3 TYPICAL BOLLARD DETAIL
S201 1:20

2 PART FOUNDATION PLAN
S201 1:50



1 KEY PLAN
S201 1:500

DO NOT SCALE THE DRAWINGS. CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

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E

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NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	DEC. 17, 2025	BBA
2	ISSUED FOR PERMIT & TENDER	JAN. 21, 2026	BBA

BBA
BARRY BRYAN ASSOCIATES

PROJECT:
DUST COLLECTOR
FOUNDATION

O'NEILL CVI
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LEGACY ENGINEERING

DRAWING:
GENERAL NOTES, KEY PLAN,
TYPICAL DETAILS AND PART
FOUNDATION PLAN

DESIGN BY:	AS	SEAL:	
DRAWN BY:	LS		
CHECKED BY:	DM		
DATE:	25-12-05		
SCALE:	AS NOTED		
PROJECT NO:		DRAWING NO:	

25227 S201