NOTES

GENERAL

1. THE GOVERNING JURISDICTION FOR THIS PROJECT IS PUBLIC WORKS AND GOVERNMENT SERVICES CANADA ON BEHALF OF CORRECTIONAL SERVICE OF CANADA.

2. FOR SITE DIMENSIONS, REFER TO LEGAL SURVEY PLANS. FOR BUILDING LAYOUT DIMENSIONS, REFER TO ARCHITECTURAL PLANS. ALL ELEVATIONS ARE SHOWN IN METERS RELATED LOCAL BENCH MARK AND SURVEY PROVIDED BY PUBLIC WORKS AND GOVERNMENT SERVICES CANADA. ALL DIMENSIONS ARE SHOWN IN METERS AND ALL PIPE DIAMETERS ARE SHOWN IN MILLIMETERS.

3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE DEPARTMENTAL REPRESENTATIVE A DIGITAL VIDEO AND PHOTOGRAPHIC RECORD IDENTIFYING ANY AND ALL EXISTING FEATURES TO BE DISTURBED. THE CONTRACTOR SHALL RESTORE ALL DISTURBED PAVEMENT, CURBS, SIDEWALKS, BOULEVARDS, LANDSCAPING, FENCES OR ANY OTHER FEATURES AFFECTED BY THE WORK IN COMPLIANCE WITH THE SPECIFICATIONS AND ANY RECOMMENDATIONS OF THE DEPARTMENTAL REPRESENTATIVE AND TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.

4. THE CONTRACTOR MUST CONTACT THE DEPARTMENTAL REPRESENTATIVE PRIOR TO CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING.

5. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENTAL REPRESENTATIVE A MINIMUM OF 2 WORKING DAYS PRIOR TO REQUIRED INSPECTIONS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
   A) MOBILIZATION
   B) DURING PIPE LAYING
   C) DURING CONSTRUCTION OF DETENTION FACILITIES
   D) DURING PREPARATION OF PAVEMENT STRUCTURE
   E) TESTING OF ALL UTILITIES
   F) AFTER COMPLETION OF ALL WORK

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT. CONFIRM BENCH MARK OR TEMPORARY BENCH MARK PRIOR TO CONSTRUCTION. ADVISE DEPARTMENTAL REPRESENTATIVE OF ANY DISCREPANCIES.

7. ANY VARIATIONS FROM THE PROPOSED WORK MUST BE APPROVED IN WRITING BY THE DEPARTMENTAL REPRESENTATIVE. FAILURE TO NOTIFY IN ADVANCE MAY RESULT IN REJECTION OF THE WORK. SUBSTITUTION OF ANY SPECIFIED MATERIALS, PRODUCTS OR EQUIPMENT WITH AN APPROVED EQUAL OR APPROVED EQUIVALENT WILL BE PERMITTED ONLY WITH THE EXPRESS WRITTEN APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE, AT ITS DISCRETION.

8. THE CONTRACTOR SHALL ADJUST THE TOPS OF ALL ACTIVE MANHOLES, CATCH BASINS, VALVE BOXES, ETC. AS REQUIRED TO MATCH NEW GRADING.

9. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY AT THE PLACE OF WORK AS AND TO THE EXTENT REQUIRED BY APPLICABLE CONSTRUCTION SAFETY LEGISLATION, REGULATIONS AND CODES, AND BY GOOD CONSTRUCTION PRACTICE. THE CONTRACTOR SHALL PERFORM ITS WORKS IN STRICT COMPLIANCE WITH THE REQUIREMENTS, RULES, REGULATIONS AND BY-LAWS OF ANY FEDERAL, PROVINCIAL OR MUNICIPAL AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL APPLY FOR AND OBTAIN ALL REQUIRED PERMITS.

10. THE CONTRACTOR SHALL MAINTAIN AND REPAIR ALL PUBLIC AND PRIVATE ROADS AFFECTED BY THE WORK AND ARRANGE FOR ADEQUATE STREET CLEANING DURING WORKING DAYS.

11. THE CONTRACTOR SHALL PREPARE A TRAFFIC MANAGEMENT PLAN FOR APPROVAL BEFORE START OF CONSTRUCTION. TRAFFIC MANAGEMENT PLAN TO BE IN ACCORDANCE WITH THE GOVERNING JURISDICTION'S REGULATIONS. AS A MINIMUM, ONE LANE TRAFFIC MUST BE MAINTAINED AND KEPT OPEN AT ALL TIMES.

12. THE CONTRACTOR SHALL CARRY OUT THE WORK SO AS TO MINIMIZE THE INCONVENIENCE TO THE INSTITUTION. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SERVICES AND ACCESS AT ALL TIMES FOR VEHICLES AND PEDESTRIANS. ANY DISRUPTIONS THAT ARE UNAVOIDABLE WILL REQUIRE A MINIMUM NOTICE OF 2 WORKING DAYS BE GIVEN TO THE DEPARTMENTAL REPRESENTATIVE.

13. IN ADDITION TO OTHER SPECIFIED REQUIREMENTS FOR RECORD, OPERATIONS AND MAINTENANCE INFORMATION THE CONTRACTOR SHALL RECORD ON A CURRENT SET OF PLANS IN A NEAT MANNER, ALL CHANGES, ADDITIONS AND DELETIONS TO REFLECT THE "AS CONSTRUCTED" INSTALLATION. THIS SET OF PLANS SHALL BE RETURNED TO THE DEPARTMENTAL REPRESENTATIVE AT THE COMPLETION OF THE WORKS AND PRIOR TO THE ISSUANCE OF SUBSTANTIAL PERFORMANCE. ANY ADDITIONAL SURVEY REQUIRED TO COMPLETE THE RECORD DRAWINGS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

14. TREES AND HEDGES IN CONFLICT WITH THE PROPOSED WORKS ARE TO BE CLEARED, GRUBBED AND DISPOSED OF OFFSITE. REPLACEMENT IS NOT REQUIRED.

15. ALL RE-GRADED, DISTURBED OR TRENCHED LANDSCAPED AREAS TO RECEIVE SURFACE RESTORATION AS PER SPECIFICATION SECTIONS 31 00 99 – EARTHWORKS FOR MINOR WORKS AND 32 92 19.13 – MECHANICAL SEEDING.

EXISTING STRUCTURES, UTILITIES AND PROPERTIES

1. **INFORMATION ON THE DRAWINGS REGARDING EXISTING UTILITIES WAS COMPILED FROM RECORD DRAWINGS, CONSTRUCTION DRAWINGS AND FIELD SURVEYS. THIS INFORMATION IS NOT NECESSARILY ACCURATE OR COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DATA BY EXPOSURE BEFORE ANY CONSTRUCTION AND TO IMMEDIATELY REPORT ANY DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE. BEFORE CONSTRUCTION, ALL TIE-IN INVERTS SHALL BE CONFIRMED, AND EXPOSURES PERFORMED WHERE THERE IS POTENTIAL FOR CONFLICTS BETWEEN EXISTING AND PROPOSED SERVICES. ANY COSTS RESULTING FROM THE CONTRACTOR'S FAILURE TO DO SO SHALL BE AT THE CONTRACTOR'S EXPENSE.**

2. **BEFORE CONSTRUCTION THE CONTRACTOR SHALL ASCERTAIN FOR HIMSELF THE EXACT LOCATION OF BOUNDARIES OF PROPERTIES, RIGHTS-OF-WAY OR EASEMENTS. ANY COST RESULTING FROM SPECIAL CONSTRUCTION METHODS, EQUIPMENT OR MATERIALS REQUIRED TO PERFORM THE WORK WITHOUT ENCROACHING ON OR CAUSING DAMAGE TO OTHER PROPERTY, SHALL BE INCLUDED IN THE CONTRACT PRICE, AND NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH COSTS.**

COORDINATION WITH OTHER WORK

1. CONTRACTOR TO IMMEDIATELY REPORT TO THE DEPARTMENTAL REPRESENTATIVE ANY CONFLICTS, DISCREPANCIES, ETC. BETWEEN WORKS SHOWN ON CIVIL ENGINEERING PLANS AND WORKS SHOWN ON ANY OTHER PLANS.

WATERWORKS

1. THE COMPLETED SERVICE SHALL BE DISINFECTED ACCORDING TO AWWA STANDARD C651, OR LATEST REVISION THEREOF.

2. CURRENT PROCEDURES OF THE GOVERNING JURISDICTION FOR ACCEPTANCE AND TIE-IN OF NEW WATERMAINS SHALL BE FOLLOWED.

STORM SEWERS & SANITARY SEWERS

1. THE PIPE DISTANCES SHOWN ON STORM AND SANITARY SEWER DRAWINGS ARE MEASURED HORIZONTALLY FROM MANHOLE CENTERLINE TO MANHOLE CENTERLINE.
2. ALL STORM SEWER MANHOLES ARE TO HAVE A 600mm SUMP.
3. ALL SANITARY MANHOLES ARE TO BE BENCHED.

QUALITY CONTROL

1. ALL TESTING SHALL BE PERFORMED BY INDEPENDENT AND CERTIFIED TESTING AGENCIES AT THE CONTRACTOR'S COST.

2. ALL REQUIRED TESTING OF THE SUBGRADE, EMBANKMENT, BACKFILL, GRANULAR MATERIALS, COMPACTION, CONCRETE, ASPHALT, GROWING MEDIUM, ETC. IS THE RESPONSIBILITY OF THE CONTRACTOR AND AT THE CONTRACTOR'S COST.

3. ALL CLEANING, FLUSHING, PRESSURE AND LEAKAGE TESTING, VIDEO INSPECTION, DISINFECTION AND BACTERIOLOGICAL TESTING AS REQUIRED FOR WATER, SANITARY AND DRAINAGE SYSTEMS ARE AT THE CONTRACTOR'S COST.

4. MATERIAL TESTS SHALL BE PERFORMED AT THE MINIMUM FREQUENCIES / INTERVALS AS PER SPECIFICATIONS.

GEOTECHNICAL AND GEOSYNTHETICS

1. DESIGN AND CONSTRUCTION OF ALL SLOPES AND RETAINING WALLS TO BE CERTIFIED BY THE DEPARTMENTAL REPRESENTATIVE (GEOTECHNICAL).

EROSION & SEDIMENT MANAGEMENT

1. ALL WORK IS TO BE UNDERTAKEN AND COMPLETED BY THE CONTRACTOR IN SUCH MANNER AS TO PREVENT THE RELEASE OF SILT, SEDIMENT OR SEDIMENT LADEN WATER, CONCRETE OR CONCRETE LEACHATE, OR ANY OTHER DELETERIOUS SUBSTANCES INTO ANY STORM SEWER, LAWN DRAIN, SOAK-AWAY, DRY WELL OR WATERCOURSE. (SEDIMENT LADEN WATER MAY BE DISCHARGED TO STORM SYSTEMS THAT ARE USED TO CONVEY FLOWS TO A SEDIMENT MANAGEMENT FACILITY).

2. INSTALL TEMPORARY PIPES, SWALES, CULVERTS, ETC. AS REQUIRED TO DIRECT SEDIMENT LADEN FLOWS TO SEDIMENT MANAGEMENT FACILITIES. REMOVE TEMPORARY WORKS WHEN NO LONGER NEEDED. BACKFILL WITH MATERIALS AND LEVELS OF COMPACTION AS RECOMMENDED BY THE GEOTECHNICAL DEPARTMENTAL REPRESENTATIVE.

3. TO PREVENT EROSION:
   a. PREVENT CONCENTRATED OVERLAND FLOWS FROM OCCURRING,
   b. COVER STOCKPILES, EXPOSED EARTH AND DISTURBED AREAS WITH STRAW OR BY OTHER COVERINGS,
   c. LIMIT CLEARING AS MUCH AS POSSIBLE TO AREAS TO BE IMMEDIATELY WORKED.

4. PREVENT WIND BLOWN EROSION BY WATERING, COVERING EXPOSED EARTH OR BY OTHER APPROVED MEASURES.

5. CONTRACTOR TO INSTALL EROSION & SEDIMENT MANAGEMENT WORKS BEFORE ANY OTHER WORK, INCLUDING CLEARING AND EARTHWORKS, AS REQUIRED.

6. ALL EROSION & SEDIMENT MANAGEMENT WORKS TO BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES TO ASSURE PROPER OPERATION. REPLACEMENT OF FENCES AND/OR BERMS, THE FLUSHING OF SEWERS AND THE CLEANING OF SUMPS MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.

7. REMOVE AND DISPOSE OF ACCUMULATED SEDIMENT FROM SEDIMENT MANAGEMENT FACILITIES ON OR BEFORE SEDIMENT REACHING ONE THIRD THE HEIGHT OF THE FACILITY.

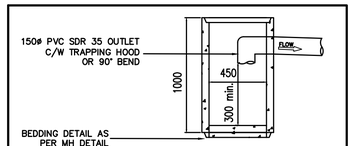
8. MONITOR EROSION AND SEDIMENT MANAGEMENT WORKS AT LEAST ONCE PER WEEK AND AFTER HEAVY RAIN OR SNOW MELT EVENTS.

9. BEFORE CONSTRUCTION ACTIVITIES, CONTRACTOR TO CLEAN EXISTING SUMPS AND FIT EXISTING CATCH BASINS & LAWN DRAINS WITH A FILTREXX INLET SOXX OR APPROVED EQUIVALENT TO PREVENT SEDIMENT FROM ENTERING ANY STORM SYSTEMS. DO NOT USE FILTER FABRIC.

10. IMMEDIATELY UPON INSTALLATION, THE CONTRACTOR SHALL FIT ALL NEW CATCH BASINS AND LAWN DRAINS WITH A FILTREXX INLET SOXX OR APPROVED EQUIVALENT TO PREVENT SEDIMENT FROM ENTERING ANY STORM SYSTEMS (UNLESS THE STORM SYSTEM IS USED TO CONVEY FLOWS TO A SEDIMENT MANAGEMENT FACILITY). DO NOT USE FILTER FABRIC.

11. DURING CONSTRUCTION THE CONTRACTOR MAY NEED TO EMPLOY ADAPTIVE MEASURES, AND/OR ADDITIONAL MEASURES, AND/OR ADJUST THE INSTALLED EROSION AND SEDIMENT MANAGEMENT WORKS TO PREVENT THE RELEASE OF SEDIMENT LADEN WATER AS SITE CONDITIONS CHANGE.

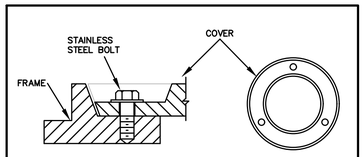
12. ALL EROSION & SEDIMENT MANAGEMENT WORKS ARE TO REMAIN IN PLACE UNTIL BUILDING ACTIVITIES ARE 90% COMPLETE AND UNTIL VEGETATION HAS DEVELOPED ON EXPOSED AND DISTURBED AREAS WHICH CONTRIBUTE FLOWS TO THE EROSION & SEDIMENT MANAGEMENT WORKS.



450ø LAWNDRAIN
STANDARD 450 CATCHBASIN c/w SLOTTED LID TO ASTM C478 OR APPROVED EQUIVILENT
NOT TO SCALE

SANITARY SEWER & DRAINAGE SYSTEM

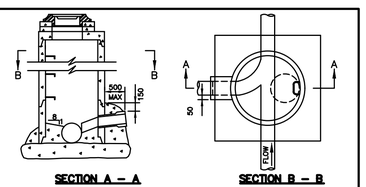
1. ALL MANHOLES AND CATCHBASINS SHALL BE SECURED WITH SPECIAL FASTENINGS TO PREVENT UNAUTHORIZED ENTRY. STANDARD COVERS AND FRAMES TO BE MODIFIED PER STANDARD DETAIL ON THIS SHEET.
1.1. COVERS: DRILL THREE EQUIDISTANT 20mm HOLES NEAR THE PERIMETER TO RECEIVE 16mm STAINLESS STEEL HEXAGON HEAD BOLTS. COUNTERSINK FOR WASHERS AND BOLT HEADS TO ENSURE A FLUSH INSTALLATION.
1.2. FRAME: DRILL AND TAP FRAME TO RECEIVE THE BOLTS FROM THE COVER. PROVIDE LUG WRENCHES.



SECURITY MANHOLE &LAWNDRAIN COVER DETAIL
NOT TO SCALE

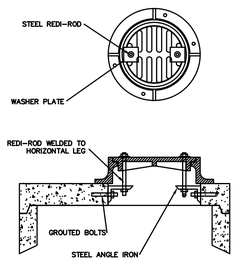
*NOTES
1. PROPRIETARY PRODUCTS ACHIEVING SAME FUNCTION ARE ACCEPTABLE SUBJECT TO APPROVAL OF DEPARTMENTAL REPRESENTATIVE.

2. FOR GRATED COVERS, AN ACCEPTABLE ALTERNATIVE TO THE ABOVE DETAIL IS AS SHOWN ON DETAIL "SCHEMATIC CB, CBMH & LAWN DRAIN COVER GRATED LOCKING SYSTEM" THIS SHEET.

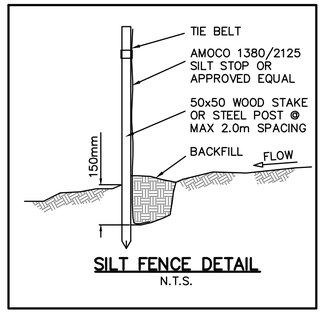


SECTION A – A SECTION B – B

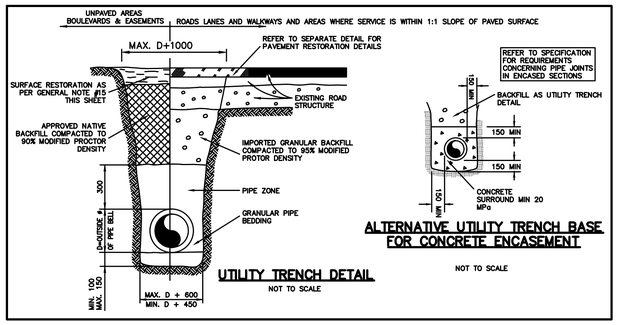
STANDARD MANHOLE TYPICAL CONNECTION DETAIL
NOT TO SCALE



SCHEMATIC CB, CBMH & LAWN DRAIN COVER GRATED LOCKING SYSTEM
NOT TO SCALE
(CONTRACTOR TO PROVIDE SHOP DRAWING SUBMITTAL FOR APPROVAL)

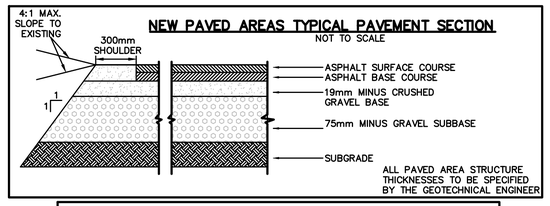


SILT FENCE DETAIL
N.T.S.

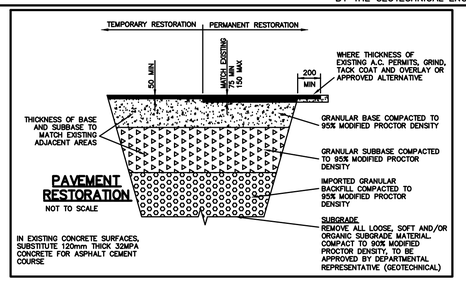


UTILITY TRENCH DETAIL
NOT TO SCALE

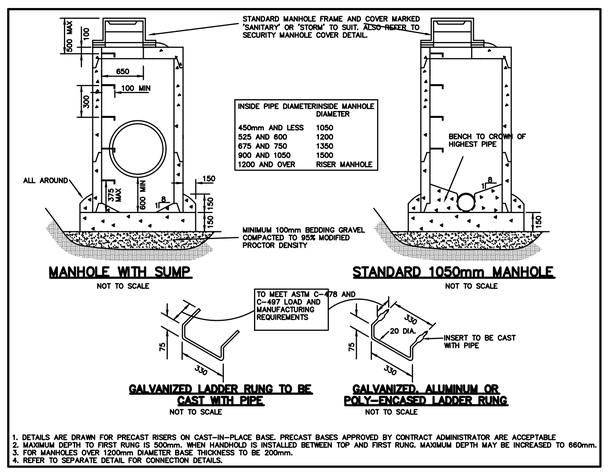
ALTERNATIVE UTILITY TRENCH BASE FOR CONCRETE ENCASEMENT
NOT TO SCALE



NEW PAVED AREAS TYPICAL PAVEMENT SECTION
NOT TO SCALE



PAVEMENT RESTORATION
NOT TO SCALE



INSIDE PIPE DIAMETER	INSIDE MANHOLE DIAMETER
450mm AND LESS	1050
525 AND 600	1200
675 AND 750	1350
900 AND 1050	1500
1200 AND OVER	RISER MANHOLE

MANHOLE WITH SUMP
NOT TO SCALE

STANDARD 1050mm MANHOLE
NOT TO SCALE

GALVANIZED LADDER RUNG TO BE CAST WITH PIPE
NOT TO SCALE

GALVANIZED, ALUMINUM OR POLY-ENCASED LADDER RUNG
NOT TO SCALE

1. DETAILS ARE DRAWN FOR PRECAST RISERS ON CAST-IN-PLACE BASE. PRECAST BASES APPROVED BY CONTRACT ADMINISTRATOR ARE ACCEPTABLE.
2. MAXIMUM DEPTH TO FIRST RUNG IS 500mm. WHEN HANDHOLD IS INSTALLED BETWEEN TOP AND FIRST RUNG. MAXIMUM DEPTH MAY BE INCREASED TO 660mm.
3. FOR MANHOLES OVER 1200mm DIAMETER BASE THICKNESS TO BE 200mm.
4. REFER TO SEPARATE DETAIL FOR CONNECTION DETAILS.

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada
REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

MGBA
MALLEN GOWING BERZINS ARCHITECTURE

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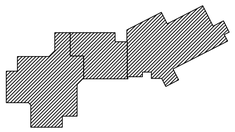
PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, M.J. KERR
2017-09-01



TRUE NORTH PROJECT NORTH

Revision/ Revision	Description/Description	Date/Date
5	ISSUED FOR TENDER	2017/09/01
4	99% SUBMISSION	2017/04/21
3	REVISED 66% SUBMISSION	2017/01/23
2	66% SUBMISSION	2016/03/17
1	ISSUED FOR COORDINATION	2016/03/17
0	33% SUBMISSION	2015/12/14

Client/client
CORRECTIONAL SERVICE OF CANADA

Project title/Titre du projet
AGASSIZ, BRITISH COLUMBIA
4732 CEMETERY ROAD PO BOX 1600
MOUNTAIN INSTITUTION

MOUNTAIN INSTITUTION HEALTH CARE EXPANSION

Consultant Signature Only

Designed by/Concept par
FID

Drawn by/Dessine par
CAJ

PWGSC Project Manager/Administrateur de Projets TPSGC
TONY TANG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin
DETAILS & NOTES

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.077724.001	C2 OF 02	5

PWGSC – A1 – 841X594
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